Volume 164 No. 21

Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

November 23 1953

RECEIVED
NOV23 1953
THE CHEMISTS' CLUB LIBRARY

"AA Quality" Chemicals

Backed by over 85 years' experience, AA QUALITY Chemicals are noted for purity and uniformity. Inquiries solicited

—your particular needs will receive prompt, co-operative attention. AA QUALITY Chemical products include:

TRISODIUM PHOSPHATE • DISODIUM PHOSPHATE, Crystalline
PHOSPHORIC ACID 75% Food Grade
PHOSPHORIC ACID 85% N. F. Grade
PHOSPHORUS PENTASULPHIDE • PHOSPHORUS SESQUISULPHIDE
PHOSPHORUS RED AMORPHOUS
AMMONIUM, MAGNESIUM, SODIUM and ZINC FLUOSILICATE
SODIUM FLUORIDE and AMMONIUM FLUOBORATE
PHOS-FEED® BRAND DICALCIUM PHOSPHATE

PHONE OR WRITE CHEMICAL SALES DIVISION

The AMERICAN AGRICULTURAL CHEMICAL Co.
50 Church Street, New York 7 • BArclay 7-1400
P. O. Drawer 2458, Detroit 31, Mich. • Vinewood 2-0146

BENZOL
TOLUOL
XYLOL

WM. S. GRAY & CO.
342 MADISON AVENUE, NEW YORK 17, N. Y.
Cable Address: GRAYLIME Phone MUrray Hill 2-3100

PUBLICKER
INDUSTRIAL CHEMICALS

PUBLICKER INDUSTRIES INC.
1429 WALNUT STREET
PHILADELPHIA 2, PENNA.
TEL. LOCUST 4-1400
One of the World's Largest Producers of Solvents

PURE ALCOHOL
SPECIALLY DENATURED ALCOHOL—All Formulae
COMPLETELY DENATURED ALCOHOL
PACO SOLVENT—(TR590)
All Products Available in 190 & 200 Proof

BICHROMATE OF SODA

PRIOR CHEMICAL CORPORATION
420 LEXINGTON AVENUE
NEW YORK
CABLE: PRIORCHEM NEW YORK
PHONE: LExington 2-9811

recommended for
POLYESTER RESINS

PRECIPITATED CALCIUM CARBONATES

*SURFEX**—coated with 1% resin; particle size about 10 microns.
*SUSPENSO**—same as SURFEX except uncoated.
*KALITE**—coated with 1% stearic acid; particle size about 1 micron.
MULTIFEX MM*—uncoated, particle size about 0.06 micron.

For further information write for DIAMOND ALKALI'S bulletin "The Use of Precipitated Calcium Carbonates in Polyester Resins".

DIAMOND ALKALI COMPANY
300 Union Commerce Bldg. • Cleveland 14, O.

DIAMOND ALKALI CHEMICALS

borax
boric acid

Technical and U. S. P.: GRANULAR, CRYSTAL, POWDERED, IMPALPABLE
Special Quality (C.P.—): GRANULAR, POWDERED

EVERY FORM OF BORATES FOR EVERY POSSIBLE USE

OTHER BORATES
BORAX 5 MOL . . . a form of Sodium Tetraborate, newly available . . . send for special bulletin.
ANHYDROUS BORAX
BORAX GLASS
ANHYDROUS BORIC ACID
AMMONIUM BIBORATE
AMMONIUM PENTABORATE
POTASSIUM PENTABORATE
SODIUM METABORATE
SODIUM PENTABORATE
ANHYDROUS RASORITE*

RASORITE SPECIAL CONCENTRATES*
FERTILIZER BORATES*
(Regular and High Grade)
*Sodium Borate Concentrates

HERBICIDES
BORASCU®*...BORASCU 44
CONCENTRATED BORASCU*
POLYBOR®
POLYBOR-CHLORATE ®

Information, Bulletins, Quotations, Sent Promptly on Request

PACIFIC COAST BORAX CO.
DIVISION OF BORAX CONSOLIDATED, LIMITED
NEW YORK • LOS ANGELES • CLEVELAND • CHICAGO

MANUFACTURERS OF FAMOUS "20 MULE TEAM" PACKAGE PRODUCTS

Quick delivery of

RIBOFLAVIN

(Vitamin B_2-U.S.P.)

These advantages are yours when you order riboflavin from Roche:

1. Special types to meet various manufacturing needs.
2. Samples and technical data cheerfully supplied.
3. Roche riboflavin meets or exceeds U.S.P. standards.
4. Careful, courteous service on orders of any size—small or large.
5. Wide range of sizes in modern packings.
6. A sure supply, because Roche riboflavin is manufactured by the tons.
7. World-wide Roche research brings you the latest vitamin developments.
8. Roche know-how helps you with manufacturing and packaging problems.
9. Roche representatives and technical personnel are at your service.

Vitamin Division, Hoffmann-La Roche Inc.

Nutley 10, New Jersey • NUtley 2-5000

Pacific Coast distributor: L. H. Butcher Co.

Los Angeles • San Francisco • Seattle • Portland • Salt Lake City

ANgelus 2-4101 MArket 1-4210 ELliott 1856 BRoadway 6564 9-3856 9-1803

In Canada: Hoffmann-La Roche Ltd., 286 St. Paul Street, West, Montreal, Quebec

PLateau 2968

Oil, Paint and Drug Reporter

Volume 164 No. 21 | 30 Church Street, New York 7, N. Y. | November 23, 1953

Rubber Plants Disposal Started by Government

Initial steps looking towards disposal of the government's synthetic rubber facilities to private interests were taken November 17 by the special disposal commission with publication of the official advertisement for proposals to purchase the facilities.

Under the act, disposal is to be handled by a three-man commission composed of Everette R. Cook, president, Cook & Co., Memphis, Tenn.; Leslie R. Rounds, retired vice-president of the Federal Reserve Bank of New York, and Holman D. Pettibone, chairman of the board of Chicago Title Trust Company. The commission has completed its preliminary organizational work, has designated Mr. Pettibone as chairman, and has made staff appointments.

Detailed information concerning the various producing plants as such and the other facilities available for sale can be obtained from Ferris B. Thomas, secretary of the commission, at its office, 811 Vermont Avenue, N. W., Washington 25, D. C.

The facilities offered for sale consist of thirteen plants for the manufacture of butadiene-styrene type rubber (GR-S), two plants for the manufacture of butyl rubber (GR-1), one plant for the manufacture of styrene, eight plants for the manufacture of butadiene, one plant for the manufacture of dodecyl mercaptan, a fleet of 448 pressure tankcars (ICC classification ICC-104AW) and various miscellaneous items of equipment.

In addition, in accordance with the disposal act, there were offered for sale or alternatively for lease two plants for the manufacture of butadiene from alcohol located respectively in Louisville, Ky., and Kobuta, Pa.

In its announcement, the commission stated that the disposal program will be conducted with due regard to the several purposes of the disposal act, so that disposal of the synthetic rubber producing facilities will establish a free, competitive synthetic rubber industry, afford small business enterprises and other users the opportunity to obtain a fair share of the end products of the facilities sold and at fair prices, be consistent with national security, and realize full fair value for the facility or facilities.

Soap, Synthetic Detergent Sales Up in Third Quarter

Sales of soaps and synthetic detergents in pounds for the third quarter this year were 21 percent ahead of the preceding quarter and 10 percent ahead of the corresponding quarter of last year. For the first nine months of this year, sales were 4 percent better than in 1952. Ninety-one manufacturers, representing a substantial portion of the industry's volume, reported total sales of soap and synthetic detergents for nine months amounting to 2,684,243,000 pounds as compared to 2,576,196,000 pounds in 1952, according to the American Association of Soap and Glycerine Producers.

Sales of soaps only, solid and liquid, for the third quarter were 17 percent ahead of the preceding quarter but were 6 percent under sales for the corresponding period in 1952. For nine months this year, sales reported amounted to 1,258,097,000 pounds as compared to 1,449,761,000 pounds for nine months in 1952, a decline of 13 percent.

Sales of synthetic detergents, solid and liquid, for the third quarter this year were 25 percent ahead of the second quarter, 29 percent ahead of the comparable period in 1952, and for the nine-months period this year were 27 percent ahead of last year. Total synthetic detergents reported for nine months of 1953 amounted to 1,426,146,000 pounds as compared to 1,126,435,000 pounds in 1952. Sales of synthetic detergents as reported for the third quarter of 1953 represent approximately 54 percent of the total soap and detergent market.

Dollar sales of all soaps and synthetic detergents for the third quarter this year increased 22 percent over the second quarter, 14 percent over the comparable period in 1952. For the first nine months of this year, total dollar sales reported amounted to $571,712,000 as compared to $521,479,000 in 1952, an increase of 9.6 percent.

Antibiotic Drug Rules Are Amended by FDA

Several amendments to regulations covering the certification of antibiotic drugs and preparations were published in the *Federal Register*, November 18, by the Food and Drug Administration.

The amendments had to do with the testing of dibenzylethylenediamine dipenicillin G and procaine penicillin for aqueous injection, and to provide for an expiration date of thirty-six months for buffered penillin powder and penicillin powder with buffered aqueous diluent if certified crystalline penicillin is used, and if the applicant for certification has proved that his product may be stored for this length of time.

Allied Gets Fast Write-Off On New Fertilizer Facility

A nitrophosphate fertilizer plant of Applied Chemical & Dye Corporation at Hopewell, Va., involving an investment of $7,000,000 has been certified for rapid tax amortization by the Office of Defense Mobilization, it was announced last week. The certificate permits rapid write-off of 75 percent of the cost.

The project was among a list of 160 new or expanded facilities certified by the agency during the two-week period from October 22 through November 4. Another project approved within the area of the chemical industry was for the production of coke and byproducts by Ford Motor Company, at Dearborn, Mich. The amount invested was $185,380 of which 35 percent was allowed for rapid amortization.

With the latest batch of certificates, accelerated amortization has been allowed on 18,394 projects having an investment of $28,720,275,000. The amount certified for accelerated amortization is 60 percent of the investment, or $17,292,581,000.

Rubber Use Curb Lifted

The Office of Defense Mobilization last week revoked a directive issued in April, 1952, that would have required controls to be resumed over the consumption of rubber under certain conditions. The direction provided for resumption of controls whenever the use of GR-S rubber fell below 450,000 tons a year or when butyl rubber consumption fell below 60,000 tons a year. ODM said there has been no occasion to use the directive since synthetic rubber consumption has exceeded these quantities.

Interhandel Case Dismissed For Lack of Swiss Documents

The long-standing suit of Interhandel, a Swiss holding company claiming ownership of General Aniline & Film Corporation, New York, was thrown out of court November 16 by Chief Judge Bolitha J. Laws of the United States District Court for the District of Columbia.

In a one-page memorandum, Judge Laws stated that the case was dismissed because Interhandel had been unable to produce the documents needed to push its case against the government for a determination of ownership. At the same time, the judge refused to grant Interhandel a further extension of time within which to obtain the documents.

In response to earlier directions of the court, Interhandel had obtained a number of documents which were in the possession of one of its subsidiaries to support its claim, but had been unable to obtain other documents because of Swiss secrecy laws. The government insisted that all the documents be produced.

Interhandel filed its suit originally in 1948 claiming that General Aniline had been wrongfully seized during the war under the trading with the enemy act on the grounds that the firm had German owners. Interhandel claimed that it was the rightful owner of the chemical company, but the Department of Justice insisted that Interhandel was merely a holding company which was in turn controlled by German industrialists.

John J. Wilson, attorney for Interhandel, indicated that the company would file an appeal of the court's dismissal action. "The judge himself conceded that his decision is unprecedented," he said. "Interhandel has made every imaginable effort to produce the records called for, and up to the time of the judge's decision we has produced 63,658 original documents. Under the circumstances, we regard the decision to dismiss our suit as contrary to law."

Titanium Sponge and Metal Under Distribution Controls

Control over the general distribution of titanium sponge and titanium metal in the civilian market was established by the Business and Defense Services Administration last week with the issuance of BDSA Notice 1 and Schedule A.

The action was taken upon the finding of the administrator of BDSA that the materials are scarce and critical and are essential to the national defense, the demands of which cannot otherwise be met without creating a significant dislocation of normal distribution in the civilian market.

BAI Told Its Actions Pass Needed Bounds

A committee of veterinary biologicals manufacturers conferred with top officials of the Department of Agriculture November 18 of the policies and administrative actions of the Bureau of Animal Industry, registering complaints that some of the actions of the agency appear to exceed the necessary bounds of protecting public interest.

The group met for nearly two hours with under Secretary True D. Morse, assistant Secretary J. Earle Coke and Dr. Robert Clarkson, deputy administrator of the Agricultural Research Service. The industry group consisted of the following:—

Kenneth F. Valentine, president of Pitman-Moore Company, Indianapolis, Ind., who served as chairman of the committee; Dr. Robert E. Cutter, president of Cutter Laboratories, Berkeley, Calif.; Dr. A. H. Fiske, vice-president of Eli Lilly & Co., Indianapolis, Ind.; W. L. Dempsey, president of Sharp & Dohme, a division of Merck & Co., Philadelphia; Karl Bambach, executive vice-president and his assistant, Alan Wagner, of the American Drug Manufacturers Association.

The industry group was reported well pleased with the reception accorded them by the officials and left the conference convinced that the officials will look into the operations of the BAI. Mr. Morse told the group that in the future the industry would be invited into conference on the preliminary drafting of any regulations by the BAI, and in that way give the BAI the benefit of industry's expert knowledge of how a particular new requirement would affect operations before the regulation is issued.

The BAI now has a proposed regulation under consideration for the issuance of special permits for the manufacture and sale of new veterinary biologicals which has aroused much objection from industry because of its proposed censorship of advertising, among other things. There was no information available as to when the regulation might be issued but it was thought that it will be delayed for some time in view of the reorganization now going on within the department.

Tetracycline Now Included In Antibiotic List of FDA

The Food and Drug Administration last week amended its regulations for certification of antibiotic drugs to include the new drug, tetracycline. The action was formally announced with publication of the amended regulations in the *Federal Register* of November 19.

There has been some question in the industry whether this drug was subject to the certification requirements of section 507 of the federal food, drug and cosmetic act, but the view adopted by the agency is that the drug is a derivative of chlortetracycline ("Aureomycin") which is a product that must be certified by the government before it can be sold.

The public amendment of the regulations covers tetracycline in each of its several forms—powder, capsules, and tablets, and the crystalline salt, tetracycline hydrochloride. The agency has authorized producers to label the product with a twenty-four-month life potency.

Conservation Revamping Aim Is Stronger Program: Benson

Secretary of Agriculture Erza Taft Benson last week told a conference of Soil Conservation Service officials that the Department of Agriculture is determined to carry out a dynamic and more effective national program of soil and water conservation with strengthened state offices of SCS as key units in administering the work of the agency.

State SCS heads were called to a meeting in Washington by D. A. Williams, recently named acting administrator of SCS, to help develop procedures to make effective the reorganization announced November 2 by Secretary Benson. Elimination of seven regional offices was one of the principal changes brought about in the Soil Conservation Service organization.

Alkylate Goal Is Less Urgent: PAD

The Petroleum Administration for Defense announced November 16 that it is no longer pressing refiners to install new alkylation facilities because potential supplies of alkylate are close to meeting expected essential demands in an emergency. The 30,000 barrel-per-day expansion goal, which was set some time ago, is being retained, but attainment of the goal by a specified deadline will not be pushed.

The agency will continue to recommend accelerated tax amortization for the installation of new alkylation facilities wherever they can be justified, it was stated, and the Armed Services Petroleum Purchasing Agency will continue negotiations with a number of refiners for construction of new facilities under the available contract arrangement.

Under these contracts, the government either guarantees a refiner a complete payoff of his investment in alkylation facilities within five years, provided certain of the optional contract provisions are met, or reimburses the refiner for his actual costs of construction as the plant is being built. The other agencies of the government involved have agreed to the relaxation in the drive for new alkylation capacity.

The decision not to push the campaign for new facilities so strongly as in the past results from the recent PAD survey of the industry which revealed that there is substantially more alkylation capacity available and firmly planned to meet emergency conditions than had previously been known. These increases in capacity account for about 22,000 barrels per day of the 30,000-barrel goal.

In addition, the trend toward the installation of catalytic reforming equipment is resulting in the ability to make higher quality base stock and therefore reduces the need for alkylate to produce a given amount of aviation gasoline. Alkylate is a very high-grade component of gasoline used to increase octane rating.

Alcohol Regulations Changed By Internal Revenue Service

The Internal Revenue Service announced last week that regulations covering denatured alcohol have been amended to provide more flexibility in the selection of denaturants which may be authorized for use in specially denatured alcohol-formula No. 29.

The change eliminates the restrictive requirement that any alternate denaturant must be a chemical product from ethyl alcohol. The service said that the amendments were considered necessary since present authorized denaturants have been found unsatisfactory for modern chemical manufacturing processes.

Plant Nutrient Supply Seen Topping Record

Supplies of the three principal plant nutrients—nitrogen, phosphates and potash—available for the 1953-54 crop year will exceed the record output of 1952-53 by about 11 percent, the fertilizer staff of the Commodity Stabilization Service of the Department of Agriculture estimated last week in the annual fertilizer situation report.

The supply of nitrogen available for fertilizer purposes in 1953,54 was estimated at 2,006,000 tons, an increase of approximately 11.2 percent above the 1952-53 deliveries of 1,804,000 tons. Phosphates available were estimated at 2,667,000 tons, up 10.4 percent from last year's deliveries of 2,414,000 tons, and potash supplies were seen amounting to 1,941,000 tons, an increase of 11.9 percent over the 1952-53 supply of 1,739,000 tons.

New Plant Capacity Considered

The report pointed out that in arriving at the estimates for the current year, consideration was given to new plant capacity that has come into operation and scheduled to come into operation during the year, and assumed that the import-export balance will remain the same as in 1952-53.

In order to meet desired levels of crop production in 1954-55, it was estimated that there will be needed for domestic fertilizer purposes 2,185,000 tons of nitrogen, 3,485,000 tons of phosphoric oxide and 2,185,000 tons of potash. For the purpose of supplying these plant foods, the Defense Production Administration established goals for expanding the productive capacity of nitrogen by 1,291,000 tons, the capacity of phosphoric oxide by 1,300,000 tons, and the capacity of potash by 600,000 tons over the January, 1951, level.

The expansion program includes the construction of new plants as well as additions to existing facilities, the report pointed out. The programs as originally set up were to have been completed in 1955, but available information from the Business and Defense Services Administration and USDA channels, the report added, indicates that the nitrogen and phosphate expansion goals may not be reached before 1956 or later. In discuss-

—Continued on page 62

Titanium Makers Seek Help From Government on Scrap

The government was asked to lend its assistance in handling accumulations of titanium scrap at manufacturers' plants by the titanium producers and fabricators industry advisory committee at a meeting November 18 with the Business and Defense Services Administration.

Industry representatives told the agency officials that, pending the development of improved technology for reusing titanium scrap, something should be done to salvage this important strategic material. They suggested that the BDSA take this matter up with the Office of Defense Mobilization for an early solution to the problem.

After a discussion of a proposed order covering production and distribution of titanium, the committee said that the industry prefers the present BDSA system of issuing directives on the scheduling of production to a control order. Committee members suggested that if it become necessary to issue any control order covering titanium, it should require the segregation of titanium scrap by generators. Segregation, they pointed out, would reduce the danger of contaminating titanium scrap by mixing it with other types of scrap metal.

Armour Licenses Fatty Acid Patents to Arizona Chemical

Armour & Co., Chicago, has licensed Arizona Chemical Company, New York, a subsidiary of American Cyanamid Company, to use Armour's patents on fractional distillation of fatty acids. This license is the outgrowth of a patent infringement suit brought by Armour against Arizona Chemical Co. in US District Court at Tallahasee, Fla., on March 22, 1951. The infringement charged by Armour involved distillation of crude tall oil at Arizona Chemical Company's plant at Panama City, Fla.

The case was tried in October, 1952, and was in its final stages when a settlement was reached whereby the Arizona company acknowledged validity of the Armour patents and arranged for the license, Armour stated. This is the second license granted under the patents in the United States. Other licenses have been granted in Great Britain and Norway.

Contents of This Issue

ACS Becomes Nation-Wide..... 41
Acheson Reelects President..... 69
ACS Chemical Education Post to Garrett.. 57
Alcohol Regulations Changed..... 3
Alkylate Goal Less Urgent: PAD..... 3
Allied Granted Fast Write-Off..... 3
Ammonia Group Elects Thomas..... 5
Antibiotic Product Offered by Lederle..... 55
APMA Midyear Program..... 7
Archer-Daniels Names Two..... 73
Argentine Linseed Oil Estimate Given..... 69
Armour Licenses Fatty Acid Patents..... 4
Armour Opens Kankakee Plant..... 5
Arnold, Hoffman Offers Dyestuff..... 50
Attapulgus Elects Gary..... 5
BAI Told Actions Pass Bounds..... 3
Bakelite Post to Phinney..... 76
Baumstark Completes Warehouse..... 39
Brea Plans Dry Ice Unit..... 39
Bristol-Myers Picks Dr. Elvers..... 53
Chemicals Foreign Trade Up in Sept..... 76
Chem. Role of Govt. Detailed..... 7
Ciba Introduces New Remedy..... 32
Coaltar Measuring Device Developed..... 50
Conservation Aim Stronger: Benson..... 3
Copper Scrap Export Rules Eased..... 32
Cottonseed Oil Bids Sought..... 78
Crossett Plans Merger..... 4
Davies Promotes Shallcross..... 39
Dodge & Olcott Labs Shown..... 54
Drake Named Reichhold Sales Manager..... 5
Drug Catalog Is Simplified..... 56
Empire Trust Appoints Watson..... 39
Esso Appoints Mangelsdorf..... 70
Ferro Appoints Agent..... 70
Flaxseed, Linseed Oil Rules Eased..... 68
FWDA Meets Feb. 25-27..... 7
Geigy Agricultural Chem. Div. Formed..... 43
Gen'l Chem. Increases Sulphuric Acid..... 5
Givaudan Builds in Brazil..... 4
Givaudan Holds Reception..... 54
Glass Container Shipments: Sept..... 54
Glidden Names Forbes..... 70
Hercules Advances Three..... 39
Heyden Appoints Aude..... 53
Hoover Commission Names Dr. Wilbur..... 78
Humphrey-Wilkinson Enlarging Plant..... 41
Industrial Oil Products Correction..... 59
Interhandel Case Dismissed..... 3
Kawecki Adds J. C. Hoff..... 40
Linseed Oil Sales Told by Ag. Dept..... 32
Lithium Ores Offered by Amer. Potash..... 4
Loven Elects Millerburg..... 70
Mathieson to Acquire Puritan and Genesee. 4
Merrell Increases Research Program..... 57
Monsanto Planning Plastics Unit..... 70
Monsanto Starts West Coast Phenol Output. 4
Monsanto Top Organization Changes Told.. 5
Moore Named Archer-Daniels Sales Mgr.... 5
Nat'l Aniline Promotes 2..... 5
Nat'l Drug Trade Conference Dec. 5..... 7
Naugatuck Aromatic Bought by Roubechez. 5
Neville Adds to Warehousing..... 68
NBS Accorded 'Clean Bill' on Additive..... 40
NFA Told Scientific Farming Dollar Gains.. 5
Nickel Products Policy Set..... 43
N. J. Zinc Buys Property..... 41
ODM Names Miss Sleeper..... 62
Pharmaceutica Int. Files as Exporter..... 78
Phila. Chemical Club Installs Officers..... 41
Plant Nutrient Supply Rising..... 4
Plastics Facility Started by Durez..... 41
Reagents Line Increased by Eastman..... 59
Rider, Mrs. Is Honored 53
Rubber Plants Disposal Started..... 3
Rubber Use Curb Lifted..... 3
SAACI Picks Schumacher..... 7
SBA Loan Policy Stresses Equality..... 32
Schwarz Plans 'Open House' Dec. 18..... 62
Sequestrants Development Told..... 39
Soap, Synthetic Detergent Sales Up..... 3
SOCMA Slates Bridges As Speaker..... 7
Soil Conditioner Meeting Set..... 43
Southern Ind. Wastes Conf. in April..... 7
SPI Unit Meeting Put Off..... 69
Stanolind to Acquire Gas Unit..... 51
Steel Shipping Barrels Output: Sept..... 59
Stresen-Reuter Appoints..... 70
Takamine 100th Birthday Marked..... 54
Tetracycline Included in FDA List..... 3
Textile Industry Aid Asked..... 78
Titanium Makers Seek Government Help.... 4
Titanium Under Distribution Controls..... 3
Tokheim Gets Investment Guaranty..... 46
Urea Resin Adhesives Developed..... 69
Vitro Adds Littel..... 51
Vitro Elects Smith Director..... 41
Western Condensing Appoints..... 56
Yeast Coenzyme Isolated..... 57

Market Reports

(See Page 9)

General Features

Advertisers Index..... 79
Association Meeting Dates..... 7
Bids Wanted..... 51
Book Review..... 34
Classified Advertisements..... 78
Consulting Chemists and Engineers..... 51
Coal Chemicals Output..... 48
Crude Oil Stocks..... 44
Current Market Quotations..... 9
Editorials 34
Imports 58
Imports Detained..... 61
Obituaries 55
OPD Price Index..... 4
Washington Talks It Over..... 5
Trade Briefs 40, 57, 69

Crossett Planning Merger With 2 Sister Companies

Crossett Chemical Company, Crossett, Ark., will merge with two sister companies, owned by the same stockholders, to streamline administrative procedures, P. F. Watzek, president, has announced. The merger will become effective on December 1.

The new organization will be known as Crossett Company. Both Crossett Lumber Company and Crossett Timber & Development Company will feature in the reorganization. All three organizatios will become divisions of the new company.

"Crossett Chemical Company will still be known by that name, but in addition it will be recognized as a division of Crossett Company. Except for the more efficient administrative procedures made possible by this action and the overall strengthening of joining three units into one, there will be no changes in operations," Mr. Watzek said. "The production, sales, service and personnel will not be affected by the change."

Lithium Ores of New Origin Offered by American Potash

American Potash & Chemical Corporation, Los Angeles, is offering lithium ores from a new source in Africa, President Peter Colefax has announced.

The company has completed arrangements to handle lepidolite and petalite ore mined from a large deposit of high grade lithium-bearing minerals located near Fort Victoria, Southern Rhodesia. The property is owned and will be operated by Bikita Minerals (Private) Ltd., under the management of Selection Trust, Ltd., a London mining concern with worldwide interests. American Potash & Chemical Corporation and American Metal Company, Ltd., are associated with Selection Trust, Ltd., in financing and developing the project.

Mr. Colefax said that the addition of the African lithium ores to the products handled by the company was another step in diversifying its activities in the chemical industry.

Mathieson to Acquire Puritan And Its Subsidiary, Genesee

Completion of negotiations by which all of the outstanding stock of Puritan Company and its wholly-owned subsidiary, Genesee Research Corporation, both of Rochester, N. Y., will be acquired by Mathieson Chemical Corporation, Baltimore, Md., was announced jointly today by Thomas S. Nichols, president of Mathieson, and Alexander Beach, president of Puritan. The transaction will take place as an exchange of stock between the two companies on January 6.

Puritan, through its operating subsidiary, Genesee Research, is a leading manufacturer and contract packager of specialty chemicals for the automotive service field. Among its principal products are antifreeze, hydraulic fluids, shock absorber oil, gasket seals, metal polishes and special soaps. It is the second oldest soap manufacturing concern in the United States, having started in that field in 1823.

The company is also engaged in research and development on rare organic chemicals and is an important producer of these materials for industrial and research use. The management of Puritan will continue as a part of the Mathieson organization.

Phenol Output by Monsanto Started at West Coast Plant

Monsanto Chemical Company's phenol plant in Avon, Calif., the first to be constructed on the west coast, has started full production.

Irving C. Smith, general manager of the company's western division at Santa Clara, which operates the plant, said that the installation can supply all industries in the Bay Area and throughout the far west with most of their present phenol needs. It can easily be expanded to meet foreseeable demands, he said.

The plant is situated on the 412-acre Contra Costa County site which also contains the company's 240-ton sulphuric acid plant, jointly operated with Tidewater Associated Oil Company. The new plant will also supply the needs for phenol of Monsanto's western manufacturing operations.

Oil, Paint and Drug Reporter, Vol. 164, No. 21, November 23, 1953. Published every Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office under the act of March 3, 1879.
Copyright, 1953, by Schnell Publishing Company, Inc.

Price Index Higher

The weight of price changes was in an upward direction last week, and the overall OPD price index gained 0.09 point to reach 106.16. The drugs and fine chemicals market featured advances in carbonate and wood creosote and in crystal and liquid forms of guaiacol. Guaiacol carbonate was also higher in this section. Reductions included ethyl and isopropyl alcohols and sodium barbitol. The leather and textiles group listed an advance for sulphonated tallow and a reduction in Maine potato starch. The agricultural chemicals market was without important price changes.

Among protective coatings materials, copal gum moved upward, as did lemon and superfine grades of shellac. This section featured reductions in Argentine casein and diethyleneglycol monomethylether. Quicksilver was stronger in the heavy chemicals group, with advances also made by tin metal, sodium stannate, tin tetrachloride and other tin salts. This market recorded no reductions. Petroleum derivative prices remained steady.

The essential oils market was weaker with clove, celery seed and orange oils among the items lowered. Stronger trends were noted for grapefruit, lignaloe wood and peppermint oils. The feature of the oils and fats market was the advance of soybean and other oilmeals. African and Japanese beeswax also moved up in this group. The reduced items included linseed acid and lard, together with castor and olive oils. Papain and Hungarian chamomile flowers moved downward among botanical drug items, while cohosh root, soap bark, nutmeg and mace gained strength. Coal chemicals made no price changes.

Except for twenty-three changes in botanicals listed on page 61, price changes during the past week were as follows (the number in parentheses after changes indicate the pages on which the market reports will be found):—

Prices Advanced

Cottonseed meal, $1 per ton (71).
Creosote, carbonate, NF, 25c. per lb. (52).
  Wood, beechwood, 25c. per lb.
  hardwood, NF, 25c. per lb.
Guaicol, crystals, 25c. per lb. (52).
  liquid, NF, 15c. per lb.
  Carbonate, 25c. per lb.
Gum, copal, Congo, No. 1, 1c. per lb. (66).
  No. 2, 1c. per lb.
  No. 3, 1c. per lb.
Linseed meal, $1 to $3 per ton (71).
Oil, grapefruit, 25c. per lb. (63).
  Lignaloe wood, Mex., 25c. per lb. (63).
  Peanut, crude, ½c. per lb. (71).
  Peppermint, nat., 30c. per lb. (63).
    redist, USP, 40c. per lb. (63).
  Safflower, ¼c. per lb. (71).
Peanut meal, old proc., $2 per ton (71).
Potassium stannate, .04c. per lb. (36).
Quicksilver, $1 per flask (36).
Shellac, lemon, No. 1, 1c. per lb. (66).
  No. 2, 2c. per lb.
  Superfine, 2c. per lb.
  TN, 2c. per lb.
Sodium stannate, .05c. per lb. (36).
Soybean meal, $4 per ton (71).
Tallow, sulphonated, 2c. to 3c. per lb. (47).
Tin chloride, .06c. per lb. (36).
  Crystals, .05c. per lb.
  Metal, 1½c. per lb.
  Sulphate, .05c. per lb.
  Tetrachloride, .05c. per lb.
Wax, bees, crude, Afr., 1c. per lb. (71).
  Japan, 1c. per lb.

Prices Reduced

Acid, linseed, 3/10c. per lb. (71).
Alcohol, ethyl, 190 proof, 5c. per gal. (52).
  Isopropyl, 4c. per gal.
Barbitol, USP, 50c. per lb. (52).
  Sodium, USP, 50c. per lb.
Casein, Argentine, ¼c. per lb. (66).
Copra, $2.50 per ton (71).
Diethyleneglycol monomethylether, 5c. per lb. (66).
Fuel oil, No. 2 furnace, N. Y. Harbor, ½c. per gal. (44).
  diesel, N. Y. Harbor, ½c. per gal.
Greases, ½c. per lb. (71).
Kerosene, N. Y. Harbor, ½c. per gal. (44).
Lard, 1¼c. per lb. (71).
Oil, birchtar, crude, 4c. per lb. (63).
  Calamus, $7 per lb. (63).
  Cajeput, tech., 15c. per lb. (63).
  Castor, No. 1, Braz., ½c. per lb. (71).
  Celery seed, 25c. per lb. (63).
  Clove, USP, 25c. per lb. (63).
  Coconut, crude, ½c. per lb.
  Corn, crude, ¼c. per lb. (71).
    ref., ½c. per lb.
  Cottonseed, crude, ½c. to ¼c. per lb. (71).
    ref., ½c. to ¼c. per lb.
  Cumin, 10c. per lb. (63).
  Lemongrass, 5c. per lb. (63).
  Linseed, 3/10c. per lb. (71).
  Olive, 5c. per gallon (71).
  Orange, sweet, exp., Cal., 6c. per lb. (63).
    Florida, 3c. per lb. (63).
  Origanum, red, 5c. per lb. (63).
  Soybean, crude, ⅜c. per lb. (71).
    ref., ⅜c. per lb.
  Sweet birch, Northern, 70c. per lb. (63).
Potato starch, Maine, 3/10c. per lb. (47).
Tallow, ½c. per lb. (71).
Tung, ½c. per lb. (71).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

Nov. 20, 1953	Nov. 13, 1953	Nov. 21, 1952
106.16	106.07	109.44

Givaudan Builds in Brazil

A factory for the manufacture of perfume raw materials has been erected in Sao Paulo, Brazil, by Companhia Brasileira Givaudan, an associate company of L. Givaudan & Cie., S.A., Geneva, Switzerland and Givaudan-Delawanna, Inc., New York.

Ammonia Group Elects E. W. Thomas President

E. W. Thomas, head of the Farm Service Company, Boonville, Mo., was elected president of the Agricultural Ammonia Institute at its third annual convention, held November 16 to 18 at the Chase hotel, St. Louis, Mo.

Officers elected with Mr. Thomas were the following:—First vice-president, Robert L. Tilton, Edward J. Funk & Sons, Kentland, Ind.; second vice-president, Tully Talbot, Chemco, Audubon, Iowa; secretary, Hampton Pugh, Pugh Gin & Fertilizer Company, Tillar, Ark., and treasurer, Ralph H. Wooten, Mid-South Chemical Company, Memphis, Tenn.

Besides the election of officers, the institute selected New Orleans, La., as the site for its 1954 convention and Kansas City, Mo., as its 1955 convention city. Dates were not set for either meeting, but, in line with past practice, they will probably be held either in November or December.

Farm Prices Seen Rising

A further drop in agricultural commodity prices was deemed "most improbable" by Jeff I. Davis, outgoing institute president. "In fact," Mr. Davis said, "I believe they may rise slightly. I also believe that we have a real opportunity to push the sale of ammonia and to preach the gospel of high fertilization."

He saw the ammonia industry developing better methods of handling and better equipment for application, and felt it would uncover more ways to combine two or more farm chores at consequently less cost. Mr. Davis also predicted that the use of ammonia will be extended to more crops and to many more areas in the country.

Greater safety in the handling of anhydrous ammonia was urged on the institute by Raymond Engel of Schrock Fertilizer Service, Congerville, Ill. He called for the adoption of the following slogan:—"Don't Learn Safety By Accident."

Mr. Engel emphasized that the industry

—Continued on page 51

Armour Formally Opens Its New Kankakee Plant

A new manufacturing laboratory for producing ACTH, trypsin, insulin and other pharmaceuticals was opened formally November 19 by the Armour Laboratories. The plant, known as the Armour Pharmaceutical Center, stands on a 175-acre tract two miles north of Kankakee, Ill. Ground was broken by F. W. Specht, president of Armour & Co., in June, 1951. Cost of the plant has been placed at $12,000,000.

It will produce Armour's line of special biological drugs, including ACTH, and other pituitary hormones, trypsin and other enzymes, insulin, thyroid extracts, various liver extracts and bovine albumin. Currently, part of its facilities is devoted also to the production of blood fractions, gamma globulin for immunity against poliomyelitis and other infections, and human serum albumin, used by the armed forces to control shock.

Archer-Daniels Sales Mgr.

James W. Moore has been appointed to the newly-created position of general sales manager of Archer-Daniels-Midland Company, Minneapolis, Minn. Mr. Moore, who has been vice-president and director of linseed oil sales, will assume his new duties immediately. At the same time the company announced that John H. Daniels has been advanced to Mr. Moore's former position as director of linseed oil sales.

Sulphuric Acid Increase Planned by Gen'l Chemical

General Chemical Division, Allied Chemical & Dye Corporation, New York, is again enlarging the sulphuric acid production capacity of its Detroit Works in River Rouge, Mich. The new facilities will produce oleum and battery acid as well as the standard grades of sulphuric acid.

The company reported that while a major addition to the acid facilities of the works was put into production only last month, the new expansion is necessary immediately if the sulphuric supply in the area is to be kept in balance with anticipated demand in the next few years.

The new unit is scheduled to go into production late next summer and will nearly double the present sulphuric capacity of the plant, making it the second largest acid producing location among General's twenty sulphuric plants in this country and Canada. Construction costs are not yet available. Earlier this year it was announced that two other large new acid plants were being built by General Chemical at Painesville, Ohio, and Baton Rouge, La.

Ferro Forms Subsidiary

Ferro Corporation, Cleveland, Ohio, has organized Ferro Powdered Metals, Inc., Salem, Ind., as a new wholly-owned subsidiary. C. D. Clawson, Ferro president, will head the subsidiary. Charles B. Hughes will be vice-president and general manager of Ferro Powdered Metals.

Monsanto Chemical Makes Sweeping Top-Level Shifts

Charles Allan Thomas, president of Monsanto Chemical Company, St. Louis, Mo., last week announced a number of changes in the top organizational structure of the firm. Mr. Thomas said they were designed "for maximum coordination and integration of effort in a growing company."

The new structure, which becomes effective January 1, was described by Mr. Thomas as "retaining the decentralized division-type line and staff organization which has contributed greatly to Monsanto's growth, but at the same time realigning the divisions and a few staff departments to enable more efficient coordination in anticipation of the company's future growth."

The board of directors, with its executive committee and finance committee, will exercise the customary policy directions of the company. Membership of these two committees will remain the same. Executive administration will be lodged in the president, the new position of executive vice-president and six executive officers who will have functional responsibilities in their respective specialized fields of interest.

Cole Executive Vice-Pres.

R. R. Cole, who has been a vice-president of Monsanto since 1941 and a director since 1944, will become executive vice-president. Vice-presidents, with their functional responsibilities for specific fields of interest will be:—Felix N. Williams, manufacturing; John L. Gillis, marketing; Dr. Carroll A. Hochwalt, research, development and engineering; Francis J. Curtis, personnel, and W. W. Schneider, general counsel. Edgar M.

—Continued on page 43

National Aniline Promotes Dr. Seigle, Fred Johnson

The appointment of Dr. Leon W. Seigle and Fred B. Johnson as manager and assistant manager, respectively for intermediate sales in National Aniline Division of Allied Chemical & Dye Corporation, New York, has been announced by Dr. O. M. Morgan, assistant domestic sales manager.

Since joining the Company in 1939 Dr. Seigle has served in the research and development department as a research chemist and later as a section leader. During an interim period he was attached to the Port Chester, N.Y., laboratory of National's new products division. Dr. Seigle will now have charge of the sales of intermediate chemicals for National as well as the addition of new intermediate products to the sales line.

Mr. Johnson joined the company in 1934 as a member of the merchandise division. He was later transferred to intermediate sales at the executive offices of the company and has served in that capacity for several years. His new duties will include, among other things, the coordination of production and sales of National's new intermediate chemical products.

Reichhold Sales Manager

Lloyd Drake has been appointed sales manager of the chemical color division of Reichhold Chemicals, Inc., White Plains, N. Y. Mr. Drake succeeds Ralph T. Urich, who was recently named head of the company's New England division. The new appointee has been with Reichhold since 1948 as a sales representative and has been associated, in production and sales capacities, with the dry color industry for eighteen years.

NFA Is Told Scientific Farming Dollar Gains

The dollars-and-cents advantages that accrue through scientific crop fertilization were outlined last week by Raoul Allstetter, vice-president of the National Fertilizer Association, at that organization's fall convention in Atlanta, Ga.

"This past year," Mr. Allstetter said, "a great deal of the NFA's effort has been devoted to converting test-proven scientific crop fertilization data into a practical dollars-and-cents story. In doing this we have worked very closely with state agricultural colleges.

"Information supplied to us by colleges all over the country shows that:—

"(1) The average farmer, who follows college recommendations on fertilizer use and other sound farming practices, can make spectacular increases in his profit per acre. Often he can double or triple his income.

"(2) The proper use of fertilizer cuts the farmer's unit cost of production—cost per pound, per ton, per bushel. By so cutting his unit cost of production, the farmer can maintain his income in the face of price declines. Usually he can actually increase his net income.

"(3) The use of fertilizers to boost per acre profits and to cut costs of production does not necessarily mean more total output. Low cost production means that the average farmer can maintain his income on fewer planted acres—even from less total production. In fact, low cost production secured by the use of ample amounts of fertilizer appears to be the only way farmers as a group can maintain their income without adding to already cumbersome agricultural surpluses," Mr. Allstetter said.

Farmers Looking to Extension Service

C. M. Ferguson, director of extension work of the Department of Agriculture, told the group that farm leadership today is looking to the extension service for an expansion and intensification of its efforts and for a vigorous redirection of its program.

"Fundamentally the job of the extension service is to speed up the application of research," Mr. Ferguson said. "Extension is proposing to do this by consolidating in a practical way all the essential elements of research into one unified approach on each farm. The objective of such an approach is to put a sound economic base under the farm by reducing costs through increased efficiency, the conservation and development of our agricultural resources through the improvement

—Continued on page 79

Naugatuck Aromatic Bought By Roubechez of New York

The assets of the aromatic chemicals department of Naugatuck Chemical Division, U.S. Rubber Company, have been purchased by Roubechez, Inc., New York, it has been announced by Francis H Sloan, president of Roubechez. The purchase price was not disclosed.

The rubber company's aromatic chemicals department, which operated under the name of Naugatuck Aromatics, processed aromatic chemicals, imported essential oils and compounded finished specialties for the perfume industry. Its purchases by Roubechez, also in the aromatic chemicals and essential oils business, included equipment, chemical processes and inventories, but no real estate.

"The acquisition of Naugatuck Aromatics will not only permit us to complete our lines of products, but it will also allow us to increase our sales service organization," Mr. Sloan said. "We will now have sales offices in Cincinnati and Chicago as well as New York and Toronto, Canada. The manager of Naugatuck Aromatics, Harold J. Edmon, will become a vice-president of Roubechez and the chief perfumer, Roy J. Huttleston, and the entire personnel of the Chicago office will join Roubechez."

Attapulgus Minerals Elects Wright W. Gary President

Attapulgus Minerals & Chemicals Corporation has announced the election of Wright W. Gary as president and chief executive officer, effective January 1. Louis R. Streander will retire as president on that date but will continue as the company's senior consultant.

Mr. Gary has been president of Filtrol Corporation, Los Angeles, for eleven years. During World War 11 he was national director of refining for the Petroleum Administration and previously had served for seven years as director of research for M. W. Kellogg Company, New York.

Washington Talks It Over

By Ralph L. Cherry

There is a pretty good chance that the idea being advanced in some quarters that a National Production Council would be a good thing for this country will receive some active consideration in congress next year along with the proposed amendments to the Taft-Hartley law which are now being worked on. The degree of activity that might surround the subject, however, depends a lot on the reshuffling of committee assignments in the senate labor committee made necessary by the death of Sen. Taft at the end of last session.

The National Production Council would be composed of representatives of labor unions, farmer organizations, consumer organizations, management and government. This council would be national in scope and seek to direct the policies affecting economy as a whole. Under the national council, there would be similar groups for each basic industry—chemicals, steel, fishing, agriculture, retailing, etc.—who would set the patterns of policies of these groups, making them conform to the overall policy of the national council.

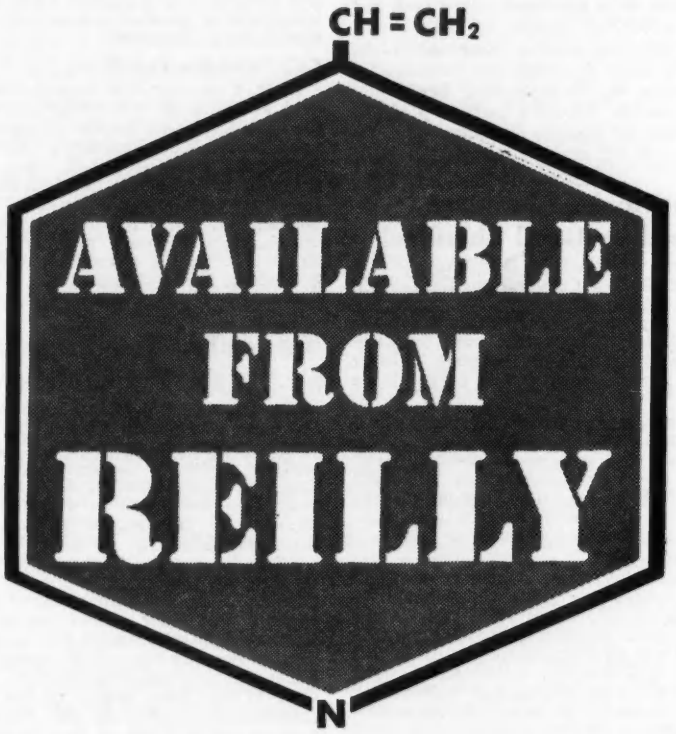
Matters that would be within the purview of council consideration would be:—Production planning, investment policy, use of new technological changes, wages and hours and other working conditions in a given industry, farm prices, acreages to be devoted to particular crops, location of new plants, and control of natural resources. In fact, anything of any importance to the national economy would be within the province of the council. It would amount to planned economy to the fullest.

The reason considerable importance is being attached to the scheme by certain of the national business organizations is the fact that one of the council's chief exponents is Sen. Irving M. Ives of New York, who may or may not be in a position next session to push the matter to a congressional vote. Senator Ives is presently acting chairman of the subcommittee on labor legislation, and is chairman of another subcommittee. Not being allowed to serve as chairman of more than one subcommittee, he will have to make a choice.

Business organizations believe he will take over the labor legislation subcommittee and in that event he may try to make the production council idea a part of the Taft-Hartley law. He is co-author with Sen. Paul H. Douglas of Illinois of a National Production Council bill, S. 1729, and at one of the labor hearings last April, the Senator expressed his belief that the Taft-Hartley act should be brought into

—Continued on page 34

4-VINYLPYRIDINE



4-Vinylpyridine forms polymers and copolymers. This property of 4-vinylpyridine suggests its use in formulations for bonding rubber. The affinity of the pyridine nitrogen indicates the usefulness of 4-vinylpyridine in improving the dyeing characteristics of some of the synthetic fibers.

In addition to its ability to form polymers, 4-vinylpyridine undergoes many chemical reactions. It reacts with sulfurous acid to give pyridylethane sulfonic acid; with nitrous acid it gives nitroethylpyridine; with alcohols, pyridylethyl ethers are formed; amines give pyridylethylamines; mercaptans form pyridylethyl mercaptans; ketones form pyridyl ketones.

You should investigate this chemical — it may be just what you need.

For a brief listing of other Reilly Chemicals send for a copy of the Reilly Chemical Index.

REILLY TAR & CHEMICAL CORPORATION

1617 MERCHANTS BANK BUILDING INDIANAPOLIS 4, INDIANA

Sales offices in principal cities

Heterochemicals • Coal Tar Chemicals • Acetylene Derivatives

Association Meetings

This Week

Manufacturing Chemists' Association, midyear meeting, Waldorf - Astoria hotel, November 24.

American Chemical Society, regional conclave, Jung hotel, New Orleans, La., December 10-12.

American Drug Manufacturers Association, annual meeting, June 28-30, 1954.

American Institute of Chemical Engineers, annual meeting Jefferson hotel, St. Louis, Mo., December 13-16.

American Pharmaceutical Manufacturers Association, midyear meeting, Waldorf-Astoria hotel, New York, December 7-9.

American Plant Food Council, annual meeting, Homestead, Hot Springs, Va., June 10-13, 1954.

American Water Works Association, Seattle, Wash., May 23-28, 1954.

Association of American Soap and Glycerine Producers, annual meeting, Waldorf-Astoria hotel, New York, January 26-28, 1954.

Association of Consulting Chemists and Chemical Engineers, symposium and banquet, Belmont Plaza hotel, New York, April 27, 1954.

Chemical Industries Exposition, Commercial Museum and Convention Hall, Philadelphia, November 30-December 5.

Chemical Institute of Canada, protective coatings division conference, Toronto and Montreal, February 25-26, 1954; annual conference and exhibition, Royal York hotel, Toronto, June 21-23, 1954.

Chemical Specialties Manufacturers Association, annual meeting, Mayflower hotel, Washington, D C., December 6-8.

Commercial Chemical Development Association, winter meeting. Statler hotel, St. Louis, Mo., January 19, 1954; annual open meeting, Statler hotel, New York, March 17-18, 1954.

Drug, Chemical and Allied Trades section of the New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 4, 1954.

Federal Wholesale Druggists' Association, mid-year meeting, Statler hotel, New York, February 25-27, 1954.

Industrial Research Institute, award dinner, San Francisco, April 22, 1954.

Manufacturing Chemists association, midyear meeting, Waldorf-Astoria hotel, New York, November 24.

Mid-Century Conference on Resources for the Future, Washington, D. C., December 2-4.

National Cottonseed Products Association, Shamrock hotel, Houston, Tex., May 7-11, 1954.

National Drug Trade Conference, annual meeting, Washington hotel, Washington, D. C., December 5.

Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, William Penn hotel, Pittsburgh, Pa., March 1-5, 1954.

Proprietary Association, executive committee meeting, December 10; scientific section-veterinary committee meeting, December 11, Biltmore hotel, New York.

Salesmen's Association of the American Chemical Industry, Christmas party, Commodore hotel, New York, December 15.

Society of Cosmetic Chemists, fall meeting, Biltmore hotel, New York, December 10.

Southern Industrial Wastes Conference, Shamrock hotel, Houston, Tex., April 21-23.

Synthetic Organic Chemical Manufacturers Association, annual meeting and dinner, Commodore hotel, New York, December 9.

Toilet Goods Association, scientific section, winter meeting, Waldorf-Astoria hotel, New York, December 9.

Nat'l Drug Trade Conference Is Set Dec. 5 in Washington

The National Drug Trade Conference will hold its annual meeting December 5 at the Washington hotel, Washington, D. C.

Included on the agenda of the one-day parley are reports by Dr. Robert P. Fischelis on uniform state legislation; John F. Hoge on the status of national legislation affecting foods, drugs and cosmetics; Dr. P. H. Costello on the present status and trends on pharmaceutical education; Maurice Mermey on the status of fair trade; W. H. P. Blandy on the Health Information Foundation program; Dr. W. Paul Briggs on the American Foundation for Pharmaceutical Education, and John Horan on the World Health Organization.

Southern Industrial Wastes Conference Planned in April

The 1954 Southern Industrial Wastes Conference will be held April 21 to 23 at the Shamrock hotel, Houston, Tex. The three-day parley, which will deal with both air and stream pollution problems in both its managerial and technical aspects, will be sponsored by three organizations—Manufacturing Chemists Association, Southern Association of Science and Industry and the Texas Chemical Council.

FWDA Meets Feb. 25-27

The Federal Wholesale Druggists' Association will hold its midyear meeting February 25 through 27 at the Statler hotel, New York. The thirty-ninth annual convention, it has been announced, will be held September 19 through 22 at the Greenbrier hotel, White Sulphur Springs, W. Va.

Chemical Market Research Role Of Government Mapped in Detail

Government's role as a major source of data for market research was heavily underscored for the chemical industry last week.

What government is doing in this field was detailed by a long list of top Washington officials at a joint meeting of the Chemical Market Research Association and the American Chemical Society's division of chemical marketing and economics, held November 18 and 19 at the Shoreham hotel, Washington, D. C.

Lawrence H. Flett of National Aniline Division, Allied Chemical & Dye Corporation, New York, and president of CMRA, in opening the two-day parley, pointed out that today's big need is to get completed research out to industry where it can be utilized.

Mr. Flett declared that there is approximately $1,000,000,000 worth of research that has been stockpiled and is not being used, of which $100,000,000 worth is probably now obsolete. In times of war, he stated, the means of victory lies in research completed in the past.

Revitalization of Commerce Dept.

Carl F. Oechsle, deputy assistant Secretary of Commerce for domestic affairs, outlined some of the steps that have been taken to revitalize his department. He cited, in particular, the appointment of a statisticians committee to study the Bureau of Census. Its aim, he said, is to determine what data "market research men and others really need and want, and to find ways of collecting them more swiftly, efficiently and economically."

He indicated that the Office of Business Economics will continue its activities on what the administration hopes will be an increased scope. Mr. Oechsle felt that the new Bureau of Foreign Commerce "will play a more important role than the old Office of International Trade in stimulating foreign trade and investment." The Commerce official noted the close working relationship between the newly-organized Business and Defense Services Administration and trade associations.

Work of Trade Associations Cited

"Your trade associations have special roles to perform which should be continued," he urged. "Had it not been for trade associations, business would have had a hard time making its voice heard in the last twenty years. The men heading up your trade associations deserve your confidence and support. They are helping us in Commerce to better serve the entire business community."

BDSA is planning to look into the question of information collection by government from business, Horace B. McCoy, deputy administrator of the agency, revealed. Aim of the study, he said, is to lighten the load of government requests for data from businessmen.

Mr. McCoy indicated that this is a long-range program in which other agencies also have responsibilities, particularly the Bureau of the Budget. "We believe, however," he stated, "that BDSA with its close relationships with the business community, can accomplish a great deal in this direction over the next several years."

Workings of Business Economics Office

Heading up a panel on business statistics and economic indicators, M. Joseph Meehan, director of the Commerce department's Office of Business Economics, explained that the activities of his office include the maintenance of a national accounting system for the United States. The nation's total income and product is reported quarterly in abbreviated form, he indicated, adding that an annual detailed statement covering the previous year is published as an extension of the comprehensive series dating back to 1929.

Mr. Meehan pointed out that the national product goes to the four broad elements of the national market — consumers, private business investment, government and international transactions. OBE, he said, uses these accounts to analyze the business situation—to learn what has been going on and to gain some insight into future trends.

Other participants in the business statistics panel were Edward F. Denison, assistant director of OBE, and Louis J. Paradiso, another assistant director of OBE and chief statistician of the office. Mr. Denison detailed the way in which national income has grown since the 1920s, mainly in manufacturing — four times the 1929 level in 1952 and a gain of 250 percent in construction and other forms of business activity.

While the bulk of national income—some 55 percent—is still concentrated in eight states, Mr. Denison noted that the west is making great strides. Expansion there started during World War II, he stated, and there have been no signs of a letup since.

Mr. Paradiso called attention to the close relation of chemical industry sales to total sales of all kinds. A 10 percent rise in national sales on a long-term basis, he said, will usually increase chemical industry sales by about 12 percent.

Materials Breakdown Urged

He urged chemical companies, in their analyses of national sales statistics, to break them down into the materials categories having closest relationship to their own activities. He indicated that growth items are very difficult to predict, since the economy as a whole must be taken into consideration in such an evaluation. He warned the predictions too far into the future are inadvisable because of a change in the competitive picture, notably by the introduction of new products. He felt that predictions on the launching of new products could only be accomplished by special surveys.

Mr. Paradiso reported that the chemical industry in the first nine months of this year did $21,000,000,000 worth of business, compared with $19,000,000,000 sales in 1952. However, he pointed out that chemical sales in the last two months have been off somewhat more than 10 percent. He looked for continued growth of the industry, adding that its ratio of inventory to sales this year is under that of 1952, which in turn was under 1951. As for 1954, the OBE official felt that the chemical industry has no need to worry.

Past US Minerals Policy Scored

Assistant Secretary of the Interior Felix Wormser told a panel on minerals for our chemical economy that the shift of the US minerals position from one of self-sufficiency to great dependence on imports is due in large part to the fact that "national policies over the past twenty years have created a discouraging outlook for the profitable investment in the exploration and development of mineral resources."

An outgrowth of this, he said, is that "these essential preliminary steps in maintaining a healthy domestic mineral economy have not been taken, and our ability to expand output has been affected adversely." Mr. Wormser said President Eisenhower is well aware of the threat to national security posed by the decline of the domestic mining industry and has set up a cabinet committee to look into the problem and to advise him on ways and means of correcting the situation.

Administration's Economic Goals

Under Secretary of the Treasury Marion B. Folsom, discussing "Current Fiscal and Tax Problems," asserted that the Eisenhower administration has made considerable progress in meeting its declared economic goals. On the question of deficits and the balanced budget, Mr. Folsom declared, the turning point has been reached. "For the first time in recent years," he pointed out, "estimates now provide for less spending in the current year than in the year just passed."

In its management of the national debt, he continued, the administration has had a fixed and determined policy, "flexible," he said, "only in its execution." He pointed out that while the goal is fixed, "our progress toward it realistically recognizes and adjusts to the changing conditions in which we operate." The goal has been and will continue to be, he stated, "a stable economy for a healthy economy."

As to its fight against inflation, Mr. Folsom stressed that "there has been a change of only one-half of one cent in 1939 dollars in the purchasing power of the dollar in the past year." This, he felt, "is real proof of stability." The administration, he went on, took a major step in encouraging initiative by lifting "needless and stifling controls" almost as soon as it assumed office.

Tax Reductions Discussed

Concerning tax cuts, Mr. Folsom pointed out that the excess profits tax will expire on December 31 and individual income taxes will go down an average of 10 percent at the same time. "But," he cautioned, "taxes can be further reduced only as expenditures are further reduced. And expenditures can be reduced only as consistent with maintaining a defense adequate to meet the dangers which confront us."

The workings of the Bureau of Census were explained at a panel of statistics as a guide to industry operations by Robert W. Burgess, director of the agency. He

—*Continued on page 45*

APMA to Hear Two Key Administration Officials

Two key figures in the Eisenhower Administration will be featured speakers at the midyear meeting of the American Pharmaceutical Manufacturers' Association, to be held December 7 to 9 at the Waldorf-Astoria hotel, New York.

Bernard M. Shanley, special counsel to the President, will address the gathering at its opening session Monday morning. Dr. Chester Keefer, special assistant for health and medical affairs to the Secretary of Health, Education and Welfare, will outline the government's responsibilities in the nation's health picture on Wednesday morning.

The meeting will also be highlighted by the presentation of APMA's 1953 scientific award to Dr. Paul Dudley White, clinical professor of medicine at Harvard University Medical School. The presentation will be made at the dinner Tuesday night.

Topics Are Summarized

Among the broad topics that will come up for discussion at the three-day parley are business and financial problems of the pharmaceutical industry and the health role of the federal government. Also to be heard are progress reports on the treatment of polio, cancer and tropical diseases. Other subjects include the health of executives, medical aspects of industrial absenteeism and retirement problems as they affect top management personnel.

Leading off the Monday afternoon session, which will stress business and financial problems of pharmaceutical manufacturers, will be Wesley A. Stanger, jr., of Riter & Co., New York, who will look at the industry from the investment standpoint. John B. Frosst, vice-president of Charles E. Frosst & Co., Montreal, will talk on "Canada and Some Aspects of Its Pharmaceutical Market."

Knox Ide of Ide & Haigney, New York, will probe the cause and effect of mergers between pharmaceutical companies. Herman C. Nolen, executive vice-president of McKesson & Robbins, Inc., New York, will point out new pharmaceutical promotional and merchandising trends.

Executive's Health

"The Executive's Health" is the subject of Tuesday's first speaker, Dr. Harry E. Ungerleider, director of medical research for the Equitable Life Assurance Society, New York. Medical aspects of industrial absenteeism will be underlined by Dr. Norman Plummer, medical director of the New York Telephone Company. Dr. Robert L. Levy, professor of clinical medicine, College of Physicians and Surgeons, Columbia University, New York, will discuss "Restrictions for Cardiac Patients—Necessary and Needless."

The afternoon will be given over to three therapeutic progress reports. Dr

—*Continued on page 51*

SAACI Picks Schumacher As Candidate for President

Warren F. Schumacher, of J. T. Baker Chemical Company, Phillipsburg, N. J., has been chosen by the nominating committeee as candidate for the presidency of the Salesmen's Association of the American Chemical Industry.

Other candidates are:— Vice-president, John F. Henry, Adams-Henry Chemical Company, New York; treasurer, E. L. Collins, Chilean Nitrate Sales Corporation, New York, and secretary, Vincent L. Rebak, Grace Chemical Company, New York. Candidates for the board of directors are:—J. N. Conover, L. Sonnenborn Sons, Inc., New York; N. H. Fyffe, Oldbury Electro-Chemical Company, New York; Clifford S. Heathcote, Monsanto Chemical Company, New York; F. H. Johnson, Barrett Division of Allied Chemical & Dye Corporation, New York; Robert J. Roberts, Emery Industries, Inc., New York, and M. Testa, jr., Shell Chemical Corporation, New York.

SOCMA Slates Sen. Bridges As Annual Meeting Speaker

The Synthetic Organic Chemical Manufacturers Association will hold its thirty-second annual meeting and dinner December 9 at the Commodore hotel, New York. The organization's board of governors will meet at 3:30 p.m., with the annual business meeting following at 5:15 p.m. At the latter, annual and committee reports will be made and new officers and board members will be elected.

The reception will take place at 6 p.m., and dinner is scheduled for one hour later. Dinner speaker will be Sen. Styles Bridges of New Hampshire, who will give "A Preview of the Coming Congressional Session."

SAVE in your processing costs with Baker SODIUM HYDROXIDE and POTASSIUM HYDROXIDE

PELLETS

The extreme purity of Baker Caustic Pellets has saved industrial users many steps in processing. They are time and money savers.

These Pellets are white, extremely pure, low in heavy metals, low in chloride, carbonate, sulfate, phosphate, nitrogen and silica content.

You also have three other advantages. They are free flowing—easy to pour—simplify your handling problems. They are easier to weigh—safer and more convenient to use.

And they now are available in tonnage quantities! Baker can supply you either Sodium Hydroxide Pellets in the Reagent and N. F. grades—or Potassium Hydroxide Pellets in the Reagent and U. S. P. grades.

For samples and prices, write: J. T. Baker Chemical Co., Executive Offices, Phillipsburg, N. J.

Baker CHEMICAL

Baker Chemicals

REAGENT • FINE • INDUSTRIAL

Current Market Quotations

Chemicals and Related Materials

All matters under this heading fully protected by copyright.

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, November 20 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

Index to Reports on Price Changes and Other Market Aspects

Acids 36
Agricultural Chemicals 42
Aromatic Chemicals 63
Botanical Drugs 61
Coal Chemicals 48
Drugs 52
Essential Oils 63
Fats and Greases 71
Fertilizer Materials 42
Fine Chemicals 52
Gums 61
Heavy Chemicals 36
Lacquer Materials 66
Leather Chemicals 47
Naval Stores 66
Oil, Cake and Meal 71
Oils 71
Paint Materials 66
Pesticides 42
Petroleum Derivatives 44
Protective Coatings Materials 66
Spices 61
Textile Chemicals 47
Varnish Materials 66
Waxes 71

A

Acacia (see Gum arabic).
Acenaphthene below 92.5 C., m.p., dms. works lb. .40 —
above 92.5 C., m.p., bbls., dms., works lb. .41 .50
Acetaldehyde, 99% dms. c.l., frt. equald lb. .1250- .1435
l.c.l. frt. equald lb. .1350- .1535
tanks, frt. equald lb. .1050- .1300
Acetaldol (see Aldol)
Acetanilide tech., bbls., c.l., dlvd lb. .29 —
ton lots lb. .30 —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 —
smaller lots lb. .81 .86
Acetic anhydride, dms., c.l., dlvd E. lb. .15½- —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —
Acetoacetanilide fib dms. c.l dlvd. lb. .75 - —
l.c.l., dlvd. lb. .76 - —
Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.27 - —
l.c.l., dlvd lb. 1.28 - —
Acetoacet-o-toluidide, fib., dms., c.l., dlvd lb. .78 - —
l.c.l. dlvd lb .79 - —
Acetone, CP, dms., c.l., dlvd lb. .10½- —
l.c.l., dlvd. lb. .11½- —
tanks, dlvd. lb. .08½- —
Methyl (see MD
Acetonitrile dms. c.l. works lb. .45 - —
l.c.l., works lb .47 - —
Acetophenetidin USP bbls. works, frt. equald lb 1.15 - 1.17
Acetophenone cns., dms. lb. 1.21 - 1.85
tech dms l.c.l. works lb .75 -
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech dms., c.l lb. .33½- —
l.c.l lb. .38½- —
tanks lb. .32 - —
Acetyltriethyl citrate tech. dms., c.l lb. .37½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Acid, abietic, com'l, dms., c.l., works lb .12 - —
l.c.l., works lb .1390- —
cryst., dms., c.l., works lb. .06½- —
l.c.l., works lb. .07 .07½
Acetic, com'l or redist., 28% bbls 100 lbs 5.50 - —
56%, bbls 100 lbs. 9.65 - —
70%, bbls 100 lbs.11.70 - —
80%, bbls 100 lbs.12.45 - —
glacial, synthetic, CP dms. works 100 lbs 15.00 -16.00
tech., dms., c.l., works or dlvd 100 lbs.10.50 12.00
l.c.l., same basis 100 lbs.11.00 -13.00
tanks, works or dlvd. 100 lbs. 9.00 -10.00
USP cbys. inclusive works. 100 lbs.24.00 -25.00
dms., works 100 lbs.13.50 -14.50
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic USP special bbls., makers, primary distrib., point of ship't, 1000-lb lots lb. .60 - —
standard, fine cryst. gran., (30-40 mesh) powd. (80 mesh), bbls same basis, lb .55 - —
Freight equald, ship't identical quantity over standard routes from N. Y., Phila Midland, Mich. Chicago and St Louis
Adipic, fib. dms., works lb. .37 - .37½
Aminoacetic NF bbls frt. adjusted lb 1.50 - 1.75
p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works lb. 2.55 - 2.60
p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50
Anthranilic resub. bbls lb 2.10 -
tech., bbls., frt. equald lb. 1.10 - 1.21
Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide)
Ascorbic USP dms., 25-50 kilo lots. kilo 21.00 - —
10-kilo lots kilo.21.35 - —
5-kilo lots kilo.21.75 - —
bots., 1-kilo lots kilo.22.00 - —
500-gram lots kilo.22.50 - —
Battery, chys. c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid, b-Oxynaphtheic).
Boric, tech. 99½%, cryst., bgs., c.l., works ton.124.25- —
ton lots, ex whse., N. Y. or Chi ton.172.00- —
smaller lots, same basis, ton.177.00- —
bbls., c.l., works ton.148.75- —
ton lots, ex whse., N. Y or Chi ton.196.50- —
smaller lots, same basis. ton.201.50- —
gran., bgs., c.l., works ton.99.25 - —
ton lots, ex whse., N. Y or Chi ton.147.00- —
smaller lots, same basis, ton.152.00- —
bbls., c.l., works ton.123.75- —
ton lots, ex whse., N. Y or Chi ton.171.50- —
smaller lots, same basis. ton.176.50- —
bulk, c.l., works ton.94.25 - —
powd., bgs., c.l., works ton.104.25- —
ton lots, ex whse., N. Y or Chi ton.152.00- —
smaller lots, same basis. ton.157.00- —
Acid, boric, tech. powd., bbls., c.l., works ton.128.75- - —
bbls., c.l., works ton.128.75- —
ton lots, ex whse., N. Y or Chi ton.176.50- —
smaller lots same basis. ton.181.50- —
Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.
Broenners, bbls lb. 1.76 - —
Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tankcars, works lb. .32½- —
Cacodylic bots lb 10.50 13.00
Camphoric, natural, dms lb 4.00 4.75
synth dms lb 4.00 4.75
Capric, dms lb. .26¼- .28
Caprylic, dms lb. .32¾- .34½
Cassella dms. frt alld lb. 1.44 1.65
Castor oil, split, dms lb. .35½- .36
Chicago bbls. frt alld lb 1.21 -
Chloroacetic, mono-, purified, flake, 99%, dms lb. .23½- .25½
o-Chlorobenzoic, fib. dms., works lb. 1.13 - —
p-Chlorobenzoic, fib. dms., works lb. 1.59 - 1.62
Chlorosulfonic dms., c.l., frt. equald lb. .0165- —
l.c.l., frt. equald lb. .0515- —
tanks, frt. equald lb. .0415- —
Acid, chlorosulphonic, in stainless steel dms. ½c. per lb. higher.
Cholic, 25-100-lb. bots., fiber dms. lb. .No prices.
Chromic 99¾%, dms., c.l., works lb. .27½ —
l.c.l., works lb. .28 - .29
NF (see Chromium trioxide)
Cinnamic, refd. bots lb 2.50 - 3.50
Citric, USP, anhyd., gran., fine gran., dms., c.l. lb. .28¾- —
10,000-lb lots, 1 ship't. lb. .29¼- —
smaller lots lb. .29¾- .31¼
hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb. lots, 1 ship't. lb. .27½- —
smaller lots lb. .28 - .29½
Powdered citric acid ½c. higher.
Cleve's, mixed, bls lb. .79 - —
Coconut oil, dist., dms lb. .27 - .28¾
tankcars lb. .25¼- —
double dist., dms lb. .27¾- .29½
tankcars lb. .26 - —
Corn oil, dist., dms lb. .13 - .14¾
tanks lb. .11½- —
Cottonseed oil, dist., dms lb. .12 - .13¾
double, dist., dms lb. .12½- .14¼
Acid, 2,3-Cresotic, dms., ton lots, works lb. .66 - —
smaller lots, works lb. .68 - —
Cresylic, coaltar dom., 50% 207°C or above, ret. dms., c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret., dms. c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207°C., ret., dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret., dms. c.l. same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
imp. 75% at 215°C. or over, dms. ex whse gal. .75 - .90
petroleum, dom. 195° to 213°C, non ret. dms., c.l. San Francisco and Los Angeles gal. .71 —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C. to 222° C., tanks, Wilmington, Cal gal. .58 - .63
211° C. to 230° C. non-ret. dms. c.l., San Francisco and Los Angeles gal. .63 —
l.c.l. same basis gal .65 - .67
tanks, same basis gal. .50 - —
220° C. to 242° C. tanks, Wilmington Cal gal. .50 - .53
245° C to 298° C. tanks, Wilmington Cal gal. .46 - —
Crotonic, fib. dms., 200 lbs. or more, works lb. .45 - —
Cyanoacetic tech bbls lb. .90 1.25
Dehydrocholic injection, fib dms., 10 to 100-lb. lots lb. .No prices.
oral, fib., dms., 10 to 100-lb. lots lb. .No prices.
Desoxycholic fib dms 10 to 100-lb. lots lb. No prices.
Dichlorophenoxyacetic (see under 'D' 2,4-D)
Diethylbarbituric (see Barbital)
Diglycolic, bgs., works lb. .14 - —
2-Ethyl hexoic, dms. c.l., works lb. .35 - —
l.c.l. works lb. .35½- —
tanks, works lb. .33½- —
F, crude paste, bbls., works lb. 1.67 - —
Folic, bots., fib. cns kilo-lots or more gram. 1.60 - —
Formic, 85%, cbys., c.l., works lb. .1570- .1720
l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
l.c.l., works lb. .1675- .1775
Acid, fumaric, tech., bgs., dms lb. .27 - .28
Gallic, NF VII, bbls., 1,000-lb. lots lb 1.80 —
smaller lots lb 1.82 2.00
technical, bbls., 1,000-lb lots lb 1.58 —
smaller lots lb 1.69 1.78
Gamma dry ground, bbls., frt. alld lb 1.50 - —
paste, bbls., frt. alld lb 1.45 - —
Gentisic, 100-lb fib dms lb 8.50 - —
Gluconic, tech., 50% bots. lb. .23½- .31½
cbys. lb. .19 - —
dms. lb. .15½- —
l-Glutamic, 99½% fib. dms., 100 lb lots works lb 2.45 2.53
25-lb lots, works lb. 2.60 2.68
Glycerophosphoric, 95% dms., works lb. 2.25 2.35
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., works, basis 100%. lb. .82 - —
paste, bbls., works, basis 100%. lb. .80 - —
Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —
Hydrobromic, medicinal, 48%, cbys., dlvd E lb .37 .43
Hydrochloric, anhydrous (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l. dlvd Metropolitan area 50 lbs. 2.90 - 3.05
tanks, works, frt equald ton.28.00 - —
20° cbys., c.l., works 100 lbs. 2.60 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.00 - 4.00
tanks, works, frt. equald ton.30.00 - —
22°, cbys c.l., works 100 lbs. 3.15 - —
l.c.l. dlvd Metropolitan area 100 lbs. 3.25 - 4.50
tanks, works, frt. equald ton.35.00 - —
CP, USP consumers cbys. extra c.l. works lb. 11¾ —
l.c.l., same basis lb 13¼ 13¾
5 pint bottles extra cs. c.l., same basis lb 16¾ —
l.c.l. same basis lb 19¼ —
Acid, hydrochloric, CP USP prices to dealers 1½c per lb less
Hydrocyanic, cyls. frt. alld lb. .75 .95
dilute NF 2% 5-lb tin lb 40 —
Hydrofluoric, anhyd., (see Hydrogen fluoride).
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½- .22½
Hydrofluosilicic, basis 35% bbls., works lb. .08 —
Hydroxyacetic, tech. 70% bbls., non-return. Phila basis 100% lb. .136 —
tanks Belle W. basis 100% lb. .095 —
Hypophosphorous, purified 30%. cbys lb 1.30 1.32
USP, cbys lb 88 —
Isonicotinic, 100 lb fib dms works lb. 5.00 - —
J, bbls, works, basis 100% lb. 2.50 2.85
Koch, bbls, frt alld lb 64 70
L, bbls frt alld lb 1.25 —
Lactic, edible 50% bbls, 20 or more lb .17 .20
smaller lots lb. .1750- .2100
60%, bbls., 5 or more lb .30 .3640
smaller lots, lb. .305 .3690
plastic grade 50% bbls & drs more, works lb. .2175- —
1 to 19 lb. .2225- .2275
80% bbls. 5 or more lb 3815- —
tech., 22% bbls. c.l. works, 100 lbs 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys works 5 lbs 7.20 12.20
44% bbls. c.l works 100 lbs 11.45 11.95
l.c.l., works 100 lbs.11.85 -12.50
NF, 85%, cbys lb. .85 .88
Laurent's bbls lb .80 .87
Lauric, 90%, dms lb. .38½- .40¼
60%, dms lb .22 - .23¼
Linseed oil, dist., dms lb. .2145- .2195
water white, dms lb. .2445- .2495
Maleic cryst. powd. dms lb .37 .38
Malic, tech., dms lb .50 —
Mandelic NF dms., 1,000-lb lots lb 2.35 —
smaller lots lb 2.40 2.50
Metanilic, dms., works lb .57 .75
Methacrylic dms. c.l. and truck loads, works lb 76 —
smaller lots, works lb. .76½- .80
Molybdic, 85-92%, dms, works lb 1.27 —
Monochloroacetic, (see Acid, Chloroacetic, mono-).
tech., flake, 96-97%, frt. equald, dms lb. .20 .21
Muriatic (see Acid, hydrochloric)
Myristic, flaked, dms lb. .27 - .28¾
solid, dms lb. .28 - .29¾
Naphthenic, 220-230 acidity, dms., works lb .14 —
tanks, works lb .12 —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol(1)-5-sulphonic (see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H)
Naphthol(2)-6,8-disulphonic (see Acid, Gamma).
(8)-7-Sulphonic,2-amino (see Acid, J)
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's)
(2)-6-sulphonic (see Acid, Broenner's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP dms. frt adjusted kilo 9.00 9.30
Amide (see Nicotinamide)
Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.25 - —
l.c.l., works, E 100 lbs. 5.55 - 6.35
38° Be cbys., c.l., works, E. 100 lbs. 5.75 —
l.c.l., works, E. 100 lbs. 6.05 - 6.50

Acacia—Acid, Nitric, 38°Be

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dextro	dextrorotatory	NF.	National Formulary
		dist.	distilled		
alld.	allowed	distr.	distributor	NNR.	New and Nonofficial Remedies
ammo.	ammonia	djns.	demijohns		
amorph.	amorphous	dlvd.	delivered	No.	number
AMP.	American melting point	dms.	drums	nom.	nominal
		dom.	domestic	ord.	ordinary
anhyd.	anhydrous	E.	east	oz	ounce
a.p.a.	available phosphoric acid	e.p.	end point	Pac.	Pacific
		equald.	equalized	pf.	proof
artif.	artificial	exp.	expressed	phos.	phosphate
ASTM.	American Society for Testing Materials	F	fahrenheit	photo.	photographic
		ferment.	fermentation	pkgs.	packages
		ffa.	free fatty acid	powd.	powdered
		ffc.	free from chlorine	precip.	precipitated
Be.	Baume			prod.	producer
bbls.	barrels	fib.	fiber	pt.	point
bgs.	bags	f.o.b.	free on board	pulv.	pulverized
bls.	bales	FPA.	free of prussic acid	purif.	purified
bots.	bottles			redist.	redistilled
b.p.	boiling point	frt.	freight	refd.	refined
b.p.l.	bone phosphate of lime	fus.	fused	refy.	refinery
		gal.	gallon	reg.	regular
b.r.	boiling range	gran.	granular	resub.	resublimed
bxs.	boxes	grd.	ground	ret.	returnable
C.	centigrade	i.&a.	iron and aluminum	SD.	specially denatured
CD.	carboys				
cbys.	completely denatured	i.b.p.	initial boiling	s.d	single distilled
		imp.	imported	S. E.	southeast
c.i.f.	cost, insurance, freight	incl.	included	secs.	seconds
		indust.	industrial point	s.g.	specific gravity
cks.	casks			shipt.	shipment
c.l.	car lots	kgs.	kegs	solut.	solution
cns.	cans	lacq.	lacquer	s.u.	standard unit
col.	color	lb.	pound	synth.	synthetic
coml.	commercial	l.c.l.	less than car lots	tanks.	railroad tank-cars
conc.	concentrated	liq.	liquid		
CP.	chemically pure	m.a.p.	mixed anilin point	tech.	technical
cps.	centipoises			USP.	U. S. Pharmacopoeia
cryst.	crystal	M c.f.	thousand cubic feet		
cs.	cases			vis.	viscosity
ctns.	cartons	min.	minimum	VM&P	varnish makers & painters
cyls.	cylinders	m.p.	melting point		
dbl.	double	N.	nitrogen	W	west
denat.	denatured	nat.	natural	whse.	warehouse
dest-dist.	destructive-distilled	neut.	neutral	w w	water white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nitric, 40°Be—Alcohol, Ethyl

Acid, nitric, 40° Be, cbys., c.l., works, E..100 lbs. 6.25 - —
l.c.l., works, E.... 100 lbs. 6.55 - 7.35
42° Be cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E.... 100 lbs. 7.05 - 7.85
58.5 to 68% HNO_3, tanks, works, basis 100% 100 lbs. 3.40 - —
94½ to 95½% HNO_3, tanks, works,, basis 100% 100 lbs. 4.40 - —
CP, NF, consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15½
5 pint bottles, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19 - .25
p-Nitrobenzoic, dms., works . lb. .77 - —
Oleic, single distilled, dms .....lb. .13¾- .15½
tanks lb. .12 - —
double dist. (white), dms... lb. .16¼- 18
tanks .. lb. .14½- —
Oleum (see Acid, sulphuric, fuming)
Orthochlorobenzoic (see Acid, o-Chlorobenzoic)
Orthocresotinic (see Acid, 2, 3-Cresotic)
Oxalic, bbls., c.l., works..... lb. .16½- —
10,000-lb. lots, works ..... lb. .16¾- —
smaller lots, works..... lb. .17¾- —
b-Oxynaphthoic, bbls., works lb. 1.14 - —
Palm oil, double dist., dms .. lb. .12¼- .13
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Para-aminosalicylic (see Acid, p-Aminosalicylic)
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulphonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst.. cns. lb. .75 - 1.70

Acid, phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys, c.l., works .100 lbs. 7.30 - —
l.c.l., works....100 lbs. 7.80 - 8.30
tanks, works.....100 lbs. 5.10 - —
NF, 85%, cbys., c.l., works. lb. .08½- —
l.c.l., works..... lb. .09 - .09½
Picric, NF, bbls.....lb. .55 - —
dms, small ..... lb. .81 - .87
tech., bbls ..... lb. .32 - .33
Propionic, synth., pure, dms., c.l., works lb. .21 - —
l.c.l., works..... lb. .22 - —
tanks, works ..... lb. .19 - —
Pyrogallic, NF, (see Pyrogallol) tech., bbls ..... lb. 2.76 - 2.99
Pyroligneous, cms., incl., l.c.l, works gal. .58 - —
whse. ..... gal. .50½- —
Ricinoleic (see Acid, castor oil, split).
S, bbls., works ..... lb 3.25 - —
Salicylic, crude, bgs ..... lb. .38 - —
sublimed, tech., bbl., c.l.... lb. .39 - —
l.c.l. ..... lb. .46 - —
dyestuffs grade, bbls.... lb. .41 - —
USP, cryst., bbls..... lb. .48 - —
powder, bbls. ..... lb. .53 - —
Sebacic, purified, dms., c.l., works. lb. .80 - —
l.c.l., works..... lb. .82 - .86
Soybean oil, double dist., dms lb. .15 - .16¾
single, dist., dms..... lb. .14½- .16¼
Stearic, double pressed, bgs. lb. .12¾- .14½
single pressed, bgs..... lb. .12¼- .14
triple-pressed, bgs..... lb. .15 - .16¾
Succinic, purified, cryst., bbls., works lb .69 - .75

Acid, sulfanilic, tech., dms., c.l., frt. alld..lb. .19 - —
l.c.l., frt. alld.....lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works..100 lbs. 2.00 - —
l.c.l., works .....100 lbs. 2.45 - —
tanks, works .....ton.18.60 - —
66° Be, cbys., c.l., works .... 100 lbs. 2.25 - —
l.c.l., works.....100 lbs. 2.55 - 3.35
tanks, works.....ton.22.35 - —
98%, tanks, works.....ton.23.50 - —
99-100%, tanks, works ....ton.23.95 - —
CP, NF, consumers cbys. extra, c.l., works frt. equald..lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. bots., extra, cs., c.l., works, frt equald lb. .13¼- —
l.c.l., same basis lb .14¾- .20¼
oleum, 20%, tanks, works..ton.25.00 - —
40% tanks, works.....ton.29.00 - —
65% tanks, works.....ton.39.50 - —
Tallow, dist., dms. .....lb. .11¼- 13
hydrogenated, dms. .....lb. .12 - .13¼
Tannic, NF, fluffy, bbls., 1,000-lb lots lb 1.59 1.60
smaller lots lb 1.65 1.76
powder bbls, 1,000-lb lots lb 1.50 —
smaller lots .....lb. 1.51 - 1.69
tech, dms lb. .95 —
Tartaric, USP, dom., 230 or 250-lb., dms, c.l. lb. .37 - —
10,000-lb. lots, 1 ship't.lb. .37½- —
smaller lots .....lb. .38 - —
100-lb dms ..... lb. .39 - —
small dms ..... lb. .41 - .47
imported, bgs. .....lb. .31 - —
Thioglycolic, refined bgs, cnys, basis 100% lb. 1.60 - 1.86
Tobias, bbls., frt. alld ..... lb. .74 - —
p-Toluenesulfonic, dms., c.l., works. lb. .16 - —
l.c.l., works..... lb. .17½- —

Acid, p-toluidine-m-sulfonic, bbls., works..lb. .82 - 1.04
Trichloroacetic, bots. ..... lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5T)
Tungstic, tech, 99.9%, kgs., works. lb. 4.25 - 4.75
Undecylenic, dms. ..... lb 1.40 —
Aconite root, bls.....lb. .50 - .60
Aconitine, amorph., mild, bots oz.27.50 -32.50
cryst., potent, bots ..... oz.78.00 -85.00
Acrolein, tech., dms., c.l., works.lb. .47 - —
l.c.l., works..... lb. .47½- —
Acrylontrile, dms., c.l., works..lb. .37½- —
l.c.l., works ..... lb. .38 - .40
tanks, works ..... lb. .36 - —
ACTH, bots .....gm.20.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 2.30 - 2.50
powdered, 30 mesh., fib., dms.. lb. 2.80 - 3.00
Alanine, dextro-laevo, dms. works. lb. 8.50 -11.00
Albumen (egg) edible, flake, bbls., lb. 2.29 - 2.31
powder, bbls. ..... lb. 2.33 - 2.35
tech., cryst., bbls.....lb. 1.03 - 1.06
Albumin, blood, dark (see Blood dried, solub.e)
light, dms., l.c.l. .....lb. .65 - .90
Egg (see Albumen.
Alcohol, allyl, dms., c.l., dlvd....lb. .32 - —
l.c.l., dlvd.....lb. .33 - —
tanks, dlvd ..... lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
fermentation, ref'd., 126°-132°C. dms., c.l., dlvd lb. .32¾- —
l.c.l. dlvd ..... lb. .33¾- .36
tanks, dlvd ..... lb. .31 —
128-132° C. dms. l.c.l. dlvd. lb. .33¾- .36
ACS grade, dms., l.c.l., dlvd lb. .35¾- —
mixed, primary, dms., c.l., works. lb .20¼- —
l.c.l., works.....lb. .21¼- —
tanks, works ..... lb. .18¼- —
pentanol-1, (synthetic normal), dms., c.l., works..lb. .42 - —
l.c.l., works..... lb. .43½- —
tanks, works ..... lb. .40 - —
pentanol-2, dms., c.l., works..lb. .65 - —
l.c.l., works ..... lb. .70 - —
tanks, works ..... lb. .60 - —
synthetic, dms., c.l., frt. alld., lb. .17 - —
l.c.l., frt. alld.....lb. .18 - —
tanks, frt. alld.....lb. .15 - —
secondary, dms. c.l. frt. alld. works, lb. .19 - —
l.c.l., works.....lb. .20 - —
tanks, works ..... lb. .17 - —
tertiary, dms. c.l. frt. alld. E. lb. .20 - —
l.c.l., frt. alld. E.....lb. .21 - —
tanks, frt. alld. E ..... lb. .18 - —
Benzyl, NF, dms ..... lb. .64 - .79
tech, dms, dlvd ..... lb. .47½- .49
Butyl, fermentation, normal, dms., c.l., frt. alld. lb. .15 - —
l.c.l., frt. alld.....lb. .16 - —
tanks, frt. alld .....lb. .13 - —
synthetic, normal, dms., c.l., dlvd..lb. .15 - —
l.c.l., dlvd .....lb. .16 - —
tanks, dlvd ..... lb. .13 - —
secondary, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd.....lb. .14 - —
tanks, dlvd ..... lb. .11 - —
tertiary, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld.....lb. .15 - —
tanks frt alld ..... lb. .12 —
Capryl, 85%, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17 - —
tanks, works.....lb. .15 - —
95%, dms., c.l., works.....lb. .18 - —
l.c.l., works.....lb. .18½- .19
tanks, works.....lb. .16½- —
Cetyl, extra nd, cns., 500-lb lots or more lb. .73 - —
smaller lots .....lb. .80 - 1.15
NF, nd, cns., 140-lb lots or more lb. .58 - .82
smaller lots..... lb. .59 - .82
Cinnamic, bots..... lb. 2.15 - 2.75
Decyl, bots ..... lb. 1.75 - 2.00
Denatured, CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .57½- —
l.c.l., dlvd., same basis gal. .62½- .68½
tanks, dlvd., same basis gal. .44½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies..gal. .59 - —
l.c.l., same basis.....gal. .64 - .70
tanks, same basis.....gal. .46 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies..gal. .58½- —
l.c.l., same basis.....gal. .63½- .69½
tanks, same basis.....gal. .45½- —
SB2B, dms., c.l., dlvd. E. of Rockies..gal. .57 - —
l.c.l., same basis.....gal. .62 - .68
tanks, same basis.....gal. .44 - —
SD3A, dms., c.l., dlvd. E. of Rockies..gal. .56 - —
l.c.l., same basis.....gal. .61 - .67
tanks, same basis.....gal. .43 - —
SD23A, dms., c.l., dlvd. E. of Rockies..gal. .58½- —
l.c.l., same basis.....gal. .63½- .69½
tanks, same basis .....gal. .45½- —
SD23H, dms., c.l., dlvd. E. of Rockies..gal. .59 - —
l.c.l. same basis.....gal. .64 - .70
tanks, same basis.....gal. .46 - —
SD29, dms., c.l., dlvd. E. of Rockies..gal. .57½- —
l.c.l., same basis.....gal. .62½- .68½
tanks, same basis.....gal. .44½- —
SD30, dms., c.l., dlvd. E. of Rockies..gal. .56 - —
l.c.l., same basis.....gal. .61 - .67
tanks, same basis.....gal. .43 - —
SD35A, dms., c.l., dlvd. E. of Rockies..gal. .59 - —
l.c.l., same basis.....gal. .64 - .70
tanks, same basis.....gal. .46 - —
SD40, dms., c.l., dlvd. E. of Rockies..gal. .57 - —
l.c.l. same basis.....gal. .62 - .68
tanks, same basis.....gal. .44 - —
Diacetone, acetone-free, dms., c.l., dlvd..lb. .14 - —
l.c.l., dlvd.....lb. .15 - —
tanks, dlvd.....lb. .12 - —
tech., dms., c.l., dlvd.....lb. .13¾- —
l.c.l., dlvd.....lb. .14 - —
tanks, dlvd.....lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies. gal.20.51 - —
l.c.l., same basis...gal.20.56 -20.62
tanks, same basis.....gal.20.38 - —
tax free, dms., c.l., dlvd. E. of Rockies..gal. .56 - —
l.c.l., same basis...gal. .61 - .67
tanks, same basis.....gal. .43 - —
absolute, 200 proof, tax paid, dms., c.l., dlvd. E. of Rockies. gal.21.61 - —
l.c.l., same basis ....gal.21.66 -21.72
tanks, same basis...gal.21.48 - —

SPECIFY

CYANAMID STEARATES

UNIFORM, PURE

ALUMINUM
CALCIUM
LEAD
MAGNESIUM
ZINC

Write for "Cyanamid Metallic Stearates—Specifications" and samples

American Cyanamid Company
Manufacturers Chemicals Department
30 Rockefeller Plaza
New York 20, N. Y.
Gentlemen:
Please send me the items checked.
☐ "Cyanamid Metallic Stearates—Specifications"
Sample — ☐ Aluminum stearate ☐ Calcium stearate ☐ Lead stearate ☐ Magnesium stearate ☐ Zinc stearate
Name_____ Position_____
Company_____
Address_____
City_____ State_____
In Canada: North American Cyanamid Limited, Toronto and Montreal

AMERICAN Cyanamid COMPANY
MANUFACTURERS CHEMICALS DEPARTMENT
30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

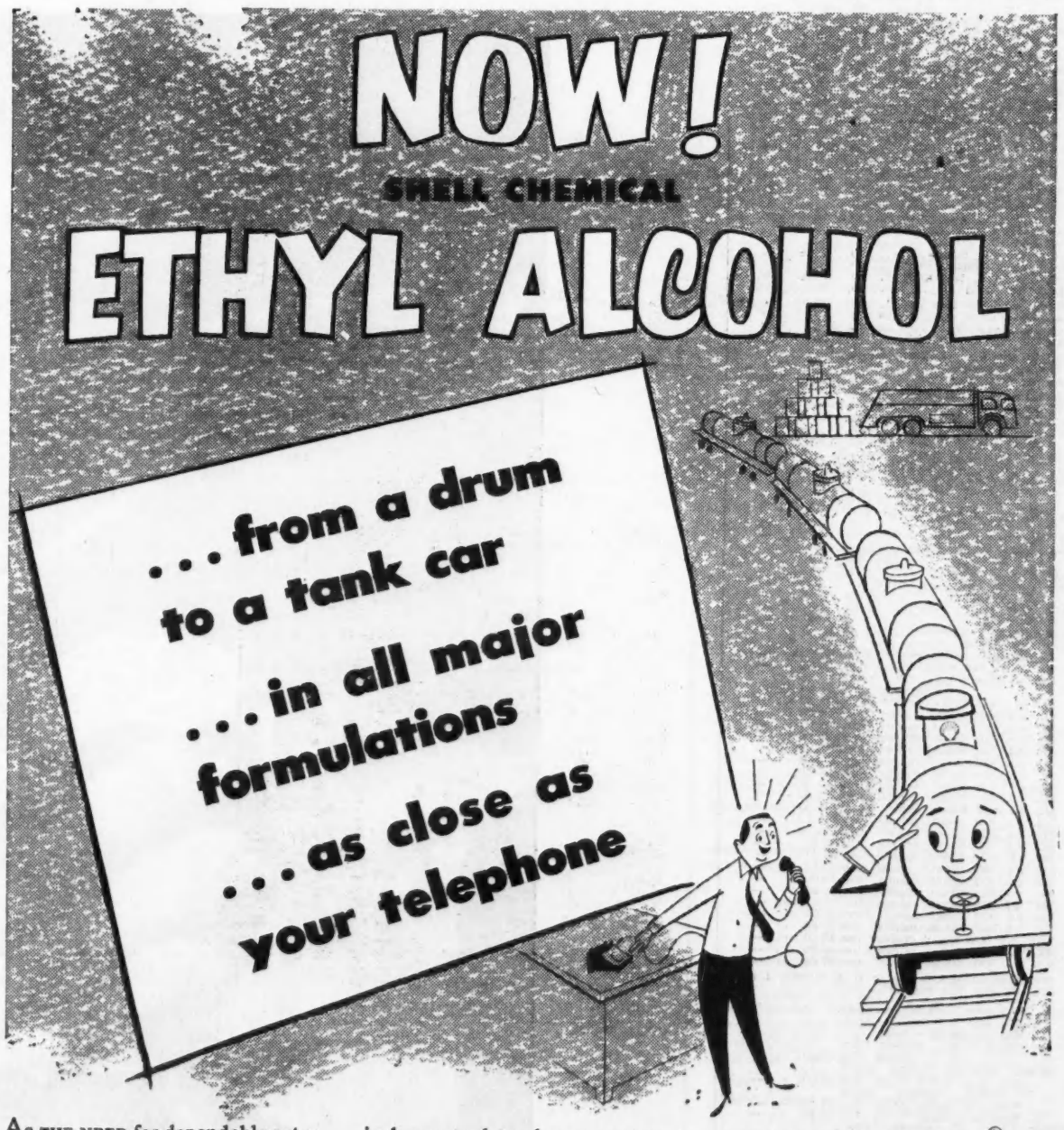
Alcohol, ethylbutyl, dms., c.l., works, lb. .29½ - —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd. E. lb. .25½ - —
l.c.l., same basis lb. .26½ - —
tanks, same basis lb. .23½ - —
Furfuryl, tech., cns., works lb. .30½ - —
dms., c.l., works lb. .21½ - —
l.c.l., works lb. .23½ - —
tanks, works lb. .18½ - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .13¾ - .14
l.c.l., dlvd lb. .14½ - .15
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd lb. .23½ - —
l.c.l., dlvd lb. .24½ - —
tanks, dlvd. E lb. .21¾ - —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .50½ - —
l.c.l., dlvd. gal. .57½ - —
tanks, dlvd. gal. .37½ - —
95%, dms., c.l., dlvd. gal. .52¾ - —
l.c.l., dlvd. gal. .59¾ - —
tanks, dlvd. gal. .39¾ - —
99%, dms., c.l., dlvd. gal. .55 - —
l.c.l., dlvd. gal. .62 - —
tanks, dlvd. gal. .42 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl).
Octyl, perfumer's grade, bots. lb. 1.75 - 3.25
technical (see Octanol normal).
Pentothenyl (see Panthenol).
Phenylethyl, extra, dms. lb. 1.57 - 2.13
standard, dms. lb. 1.35 - —
Propyl, normal, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Polyvinyl, various grades, bgs., ton lots, works lb. .72½ - .76
smaller lots works lb. .77½ - .81
Tetrahydrofurfuryl, cns., Waverly, N. Y. lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .45 - —
l.c.l., Waverly, N. Y. lb. .47 - —
tanks, Niagara Falls, N. Y lb. .43 - —
industrial grade, dms., c.l., Niagara Falls, N. Y. lb. .305 - —
l.c.l., Waverly, N. Y. lb. .325 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Wood (see Methanol).
Aldol, 95%, dms. works lb. .23 - —
denaturing grade, dms. gal. 2.15 - —
Aldrin, 60% solut., dms., c.l. works frt. alld lb. .533 - —
l.c.l., works, frt. alld. lb. .755 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 100% dms., frt., alld lb 32.00 - —
90%, dms., frt. alld lb 28.80 - —
solution, 20% dms. 100-lb lots frt. alld lb. 6.55 - 7.55
2½%, dms., frt. alld. gal. 6.00 - 6.50
Allspice (see Pimento).
Allyl bromide, cnys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd. lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid dms., works lb. .52¾ - .54¾
solution, 40% toluol-butanol, dms., works lb. .25½ - .26¼
Aloe, Cape, cs lb. .29 - .32
powdered, cs. lb. .38 - .45
Curacao, kgs. lb. .50 - .55
Socotrine, kgs. lb. No prices
Aloin, USP, bbls., dms., kgs. lb. 3.75 - 4.64
Alphanaphthol, bbls., frt. alld. lb. 1.00 - —
Alphanaphthylamine, bbls. frt. alld. lb. .50 - —
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline ret. dms., c.l., works, frt. equald lb. .43½ - —
l.c.l., works, frt. equald lb. .44 - —
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd. E. lb 17 - —
Alphatocopherol, bots. kilo. 225.00 - —
Acetate, bots. kilo. 225.00 - —
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾ - .08
Potassium, gran., bgs., works, 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt dms lb. .20 - .21
hydrous dms lb. .07¾ - .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works, tb. .0385 - —
l.c.l., works lb. .0410 - .0510
crystalline (see Aluminum oxide).
Aluminum acetate, basic solut., 24%, bbls., l.c.l., works lb. .14 - —
Chloride, com'l, anhyd. dms., c.l., works, frt. equald lb. .15 - —
l.c.l. works, frt. equald. lb. .1550 - —
cryst., dms., c.l., works lb. .1030 - —
l.c.l., works lb. .1070 - —
solution, 32° chys., c.l., works, lb. .0369 - —
l.c.l., works lb. .0435 - .0960
tankcars, works, 100 lbs. 2.80 - —
NF, gran, dms, works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .1540 - —
l.c.l., works lb. .1640 - .1890
Aluminum fluoride, in fib. dms., 0.35c. per lb. higher.
Formate, basic solution, cbys. lb. .69½ - —
l.c.l. works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald. ton 60.00 - —
l.c.l., works ton 65.00 - 85.00
light bgs. dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .82½ - —
contract, works lb. .79½ - —
powder, tech (see Aluminum hydrate).
Laurate, precip, bbls fb. .44 - —
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .21½ - —
pigs, 10,000-lb. lots, frt. alld. lb. .20 - —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms. lb. .63½ - —
standard, dms lb. .43 - —
Powder, lining, extra fine, dms lb. 1.02½ - —
standard, dms lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb. dm., 1½c. per lb for 50-lb dm., 3c. per lb for 10-lb can and 5c to 12c per lb for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs. 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Aluminum resinate, precip., dms., frt. alld. lb. .27½ - —
Stearate, dibasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
tribasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
Sulphate, com'l, bulk, c.l., works, 100 lbs. lb. 1.85 - —
ground, bgs., works ton 37.00 - —
lump, bgs., works ton 40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. .13 - .15
powd., dms., works lb. .14 - .16
Trihydrate heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 - 10.00
Ambrette seed, bgs lb. .83 - .86
Aminoazotoluene, bbls lb. 1.03 - 1.18
Aminoethylethanolamine, dms., c.l., dlvd lb. .46½ - —
l.c.l., dlvd lb. .47½ - —
tanks, dlvd lb. .43 - —
Aminomethylpropanol, cns., dms., works lb. .60 - —
Amonophyllin, USP, 100-lb. dms. lb. 3.05 - —
Aminopyrine, USP, bots. dms lb. 6.00 - 6.15
Ammonia, anhydrous, tertilizer, tanks, works ton 85.00 - 88.00
pure, cycls, extra, zone 1 lb. .18½ - —
2 lb. .19 - —
3 lb. .19½ - .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works ton 87.50 - 90.50

Ammonia, aqua (29.4% NH_3), dms., c.l., dlvd., Met. area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton 96.00 - —
Ammoniac gum (see Gum ammoniac).
Sal, gray, bgs., c.l., works, frt. equald 100 lbs 8.25 - —
l.c.l., same basis 100 lbs. 8.65 - 11.15
white gran. (see Ammonium chloride, tech.)
Ammoniacal liquor tankcars works anhyd. basis ton 96.00 - —
Ammonium acetate, purified, dms. lb .38 - —
Benzoate, USP, dms kgs 4.000 fb lots frt alld fb .80 - —
smaller lots, frt. alld. lb. .81 - 1.08
Biborate, bbls., c.l., works ton 312.00 - —
ton lots ex whse ton 375.00 - —
smaller lots, ex whse ton 390.00 - —
Bicarbonate, com., dms., c.l., works lb 6.50 - —
l.c.l., works lb. 7.50 - —
imported dms, l.c.l lb .07¼ - .08½
Bichromate, bbls, works lb. .42 - .43
Bifluoride, dms., dlvd. lb. .2145 - .2245
Bromide NF, gran. bbls lb .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c per lb higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech., white granular, bgs., c.l., works 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17½ - —
Citrate, dibasic bbls lb. .75 - —
dms lb. .80 - .85
Fluoride (see Ammonium bifluoride).

Ammonium hydroxide (see Ammonia aqua).
Hypophosphite NF dms lb 2.40 - —
Iodide, NF, dms., bots. lb 4.26 - 4.38
Linoleate, 80% dms. works lb. .50 - .55
Nitrate, tertilizer grade Canadian eastern, 33.5% N, bgs., c.l., shipping point ton 77.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton 89.84 - —
domestic bgs., western, works, ton 68.00 - 70.00—
with dolomite 20.5% N bgs Hopewell, Va ton 51.00 - —
Oxalate, fine gan., dms., lb 26½ - 31
Pentaborate, gran., bbls., c.l., works ton 222.00 - —
ton lots ex whse ton 285.50 - —
smaller, lots, ex whse ton 290.00 - —
Ammonium pentaborate powder $10 per ton higher
Perchlorate, kgs, works lb .50 - .75
Persulphate, kgs lb .38 - —
Phosphate, com'l bgs, c.l., works, frt equald lb 08½ - —
l.c.l., same basis lb .09 - —
dibasic, NF V bots, dms lb .45 - —
tech., bgs, c.l., works, frt. equald lb 08½ - —
l.c.l. same basis lb .09 - —
Salicylate, NF, dms., kgs lb. 1.62 - 1.64
Silicofluoride, dms works lb 11 - 12
Sulphamate, bbls, dms, works lb 18 - .20
Sulphate, coke-oven, bulk, producing ovens ton 44.00 - 47.00
synthetic, bgs, c.l. western works ton 49.50 - —
bulk, works ton 45.00 - —
purified, dms., works lb .08½ - .10



As THE NEED for dependable petroleum-derived ethyl alcohol has become more and more urgent, Shell Chemical has expanded its distribution facilities.

Now, complete denaturing plants have been established in three key industrial centers, ready to make the fastest possible delivery to you in any quantity you may need . . . in drums, tank trucks, compartment trucks, tank cars or compartment tank cars.*

Shell Chemical's ethyl alcohol is of the highest quality, meeting or surpassing all Federal and commercial specifications for purity. It is available as pure alcohol (190 proof), in specially and completely denatured grades, and as the two proprietary solvents, Neosol® and Neosol A.

Your Shell Chemical representative will be glad to discuss your alcohol supply problem with you, at your convenience. You are invited to telephone or write.

*Tank truck and drum availability west of Rocky Mountains is limited.

SHELL CHEMICAL CORPORATION
CHEMICAL PARTNER OF INDUSTRY AND AGRICULTURE
Eastern Division: 500 Fifth Avenue, New York 36 • Western Division: 100 Bush Street, San Francisco 6
Atlanta • Boston • Chicago • Cleveland • Detroit • Houston • Los Angeles • Newark • St. Louis
In Canada: Chemical Division, Shell Oil Company of Canada, Limited • Toronto • Montreal • Vancouver

Ammonium Sulphide—BHC

Ammonium sulphide, liq., 40-44%, dms., c.l., frt. equald, basis 100% ton 240.00 - —
l.c.l., basis 100%, works ton 300.00 - —
tanks, frt. alld ton 180.00 - —
Sulphocyanide, tech. (see Ammonium thiocyanate)
Thiocyanate, tech., dms., c.l., works lb. .18 - —
l.c.l., works lb. .20 - .23
Thioglycollate com'l, chys., basis 100% lb. 1.60 - —
highly purified, chys., basis 100% lb. 1.70 - 1.90
Thiosulphate, cryst., photo grade, fib dms., frt. alld lb. .65 - —
60% solution, dms., c.l., works lb. .06½- —
Amphetamine hydrochloride dibasic, dextro, bots lb 28.00 - —
dextro laevo dms lb 6.00 - —
monobasic dextro bots lb 28.00 - —
Phosphate dibasic, dextro, bots. lb 28.00 - —
dextro laevo dms lb 6.00 - —
Sulphate dextro dms lb 28.00 - —
dextro laevo, dms lb. 6.00 - —
Amyl acetate ex (use) oil, tech., frt. alld. E. of Rockies lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
ex pentane dms c.l. frt alld. E. of Rockies lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
Alcohol (see Alcohol, amyl).
Butyrate dms lb 90 - 1.05
Cinnamic aldehyde, dms lb 1.05 - 2.00
Nitrite USP bots lb 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.05
Anethol, NF, cns., dms lb. 1.25 - 1.55
tech., dms. lb. .75 - 1.20
Angelica root dom. bls lb. .60 - .70
Anilin oil, dms. c.l. works, frt. alld. lb. .21 - —
l.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., frt. alld. lb. .33 - —
Anise, Balkan, bgs lb. No prices Nom.
Czech, bgs. lb. .28 Nom.
Mexican, bgs. lb. .17 Nom.
Spanish, bgs. lb. .22 Nom.
Turkish, bgs. lb. .26 - —
Anisic aldehyde, bots., dms lb. 2.00 - 2.70
Annatto seed, whole, bgs. lb. .24 - —
powdered dms lb. .28 - —
Anthracene 90-95% bbls., ton-lots, works lb. .80 - —
smaller lots, works lb. .85 - —
Anthraquinone, 98.5%, bbls., frt. alld. lb. .88 - —
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .34½- —
cases, c.l. mines lb. .35 - —
Oxide, bgs, c.l., frt. alld lb. .27½- .36
l.c.l., frt. alld lb. .29 - .39½
Sulphide, 62-64% bgs, dlvd lb. .38 - .38½
Trichloride, pails c.l. works lb. .43 - .47
l.c.l. works lb. .45 - .49
solution, chys., works lb. .29 - .39
Antimony potassium tartrate (see Tartar emetic)
Antipyrene NF dms lb 2.50 - 3.60
Apomorphine hydrochloride, USP, bots oz. 23.40 - 23.90
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots. tins oz 5.00 - 5.75
Arginine monohydrochloride, laevo dms., 1-kilo. lots kilo 77.00 - —
Argols, min 30% bgs, shipment ports, per 100 kilos, basis 100% lb. No prices.
Arnica flowers (true montana), bls. lb. .70 - .71
root, bls lb 1.45 - —
Arsenic metal, lump, bbls., prompt ship't lb. .70 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l. dlvd. lb. .06½- .07½
Asafetida, cs lb .32 - .35
powd. bbls, dms lb .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons) mines ton 1,300.00- —
No. 2, c.l. (20 tons) mines ton 675.00 - —
Run of-mine, c.l. (20 tons), mines ton 556.00 - —
3K, c.l., (20 tons), mines ton 456.00 - —
3R, c.l. (20 tons) mines ton 371.00 - —
3T, c.l. (20 tons) mines ton 348.00 - —
3Z, c.l. (20 tons) mines ton 321.00 - —
4K, c.l. (20 tons) mines ton 173.00 - —
4M, c.l. (20 tons) mines ton 173.00 - —
4T, c.l. (20 tons) mines ton 156.00 - —
4Z, c.l. (20 tons) mines ton 156.00 - —
5D, c.l. (20 tons), mines ton 122.50 - —
5K, c.l. (20 tons) mines ton 122.50 - —
5M, c.l. (20 tons) mines ton 116.50 - —
5R, c.l. (20 tons) mines ton 110.00 - —
6D, c.l. (30 tons) mines ton 78.00 - —
7D, c.l. (30 tons) mines ton 68.50 - —
7F, c.l. (30 tons) mines ton 65.00 - —
7H, c.l. (30 tons), mines ton 55.00 - —
7K, c.l. (30 tons) mines ton 46.00 - —
7M, c.l. (30 tons) mines ton 40.00 - —
7R, c.l. (30 tons) mines ton 39.00 - —
7T, c.l. (30 tons), mines ton 37.00 - —
7RF, c.l. (30 tons), mines ton 40.00 - —
7TF, c.l. (30 tons) mines ton 40.00 - —
8S, c.l. (30 tons) mines ton 27.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, seconds, 300-390° F. fusing point not uniform bgs. c.l., Craig, Colo.; Heber City, Utah ton 34.00 - —
select, 350° F. fusing point, bgs., c.l., same basis ton 38.00 - —
270-295° F. fusing point, bgs. c.l. same basis ton 37.00 - —
1st, bgs. c.l. same basis ton 34.00 - —
Manjak, No. 13, crude, dms., works lb. .06¼- —
Petroleum, cut-back, tanks, tankwagon, refinery gal. .09 - —
emulsion tanks tank wagon refinery gal. .09½- .10
steam refd, less than 80 penetration tanks, tankwagon, refinery ton 22.00 - —
80-300 penetration, tanks, tankwagon refinery ton 21.00 - —
Aspirin (see Acid, Acetylsalicylic)
Atropine, USP, bots oz. 8.50 - 9.00
Sulphate USP, bots oz. 4.50 - 5.00

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb 1.35 - 1.45
Barberry root bark, bags lb. .28 - .30
Barbital, USP, 100-lb. dms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton 92.50 - —
smaller lots works ton 102.50 - —
Chlorate, kgs., works lb. .32 - .36
Chloride, anhyd. bgs., c.l., works ton 158.00 - —
l.c.l., works ton 168.00 - —
NF, cryst., dms lb. .18 - —
Barium chromate, bgs., frt. equald lb. .30 - —
Dioxide (see Barium peroxide)
Hydrate, crystals, bgs ton 190.00 - 200.00
Iodide, bots lb 6.14 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide, grd., dms., c.l., frt. equald. ton 255.00 - —
l.c.l., works ton 265.00 - —
Peroxide, dms, works lb 16 - —
Stearate, ctns., c.l., frt. alld. lb. .37 - —
l.c.l., same basis lb. .38 - .42
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb .14 - .14½
Sulphide, dms., c.l., works ton 85.00 - —
l.c.l., works ton 95.00 - —
Barytes, Southern, off color, bgs. mines ton 25.00 - —
95.75%, bgs., mines ton 25.00 - —
water-grd., paper, bgs., c.l., E. St. Louis ton 41.60 - —
ex-whse., N. Y. ton 60.10 - —
Bauxite, bulk, mines ton 9.50 - 10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .28 - .32
root, bls lb. .45 - .50
Bentonite, dom., 200 mesh, bgs. works ton 14.00 - —
imported, Italian, white, high gel., bgs., 10 tons to c.l., ex dock ton 65.90 - —
5 ton-lots, ex whse ton 80.60 - —
1 ton-lots, ex whse ton 83.10 - —
low gel, bgs., 10 tons to c.l., ex dock ton 64.40 - —
5 ton-lots, ex whse ton 78.95 - —
1 ton-lots, ex whse ton 81.45 - —
Benzal chloride, chys, works lb .22 - .23½
Benzaldehyde, NF, dms lb. .74 - 1.05
tech., chys., dms lb. .44 - —
Benzene (see Benzol)
Hexachloride, 99% gamma isomer (see Lindane)
tech., bgs., dms., c.l., works, gamma unit-lb. .0075- —
l.c.l., works, gamma unit-lb. .015 - —
dust, dry, distributors, dms., c.l., dlvd., gamma unit-lb. .013 - —
l.c.l., dlvd., gamma unit-lb. .014 - —
wet, distributors, dms., c.l., dlvd., gamma unit-lb. .02 - —
l.c.l., dlvd., gamma unit-lb. .021 - —
Benzidine hydrochloride, bbls., frt. alld., basis 100% lb. 1.00 - —
Benzocaine dms lb. 3.48 - 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa gal. .42 - —
Birmingham district gal. .40 - —
Chicago district gal. .40 - —
Cleveland district gal. .40 - —
Geneva, Utah gal. .40 - —
Johnstown, Pa gal. .40 - —
Lackawanna, N. Y. gal. .42 - —
Lone star, Texas gal. .41 - —
Lorain, Ohio gal. .40 - —
Minnequa, Colo gal. .39 - —
Philadelphia district gal. .42 - —
Pittsburgh district gal. .40 - —
Sparrows Point, Md gal. .42 - —
Syracuse, N. Y. gal. .40 - —
Terre Haute, Ind gal. .41 - —
Youngstown, Ohio gal. .40 - —
Benzophenone dms lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, chys., frt. equald. lb. .18 - .20
Benzoyl chloride, chys., dms., c.l., works, frt equald lb. .21½- .24½
l.c.l., same basis lb. .22½- .25½
Peroxide, pure, fib. ctns., works. lb 90 - 1.05
Benzyl acetate, f.f.c., cns., dms. lb. .62 - 1.04
Alcohol (see Alcohol benzyl)
Benzoate, USP, f.f.c., cns., dms. lb. .62 - 1.10
Chloride, tech., chys., dms., c.l., works, frt. equald lb. .20½- .23½
l.c.l., same basis lb. .21½- .24½
High grade benzyl chloride, 2c. higher.
Cinnamate, cns lb. 3.30 - 3.75
Formate, cns lb. 1.30 - 2.10
Propionate, bots lb 1.35 - 1.80
Salicylate, bots. lb. 1.50 - 1.85
Benzylidinacetone, bots lb. 1.63 - 2.05
Benzylisoeugenol, cns. lb. 8.60 - 9.10
Berberine bisulphate, cns lb. 35.00 -36.25
Hydrochloride, bots lb 35.00 -36.25
Betagammapicoline, 5°, dms., c.l., works lb. .31 - .32½
l.c.l. works lb. .32 - .33
Betamethylnaphthalene, 32°C m.p., dms. works lb. .90 - —
Betanaphthol, resublimed, dms., works lb. .78½- —
tech., bbls., c.l. works lb. .32½- —
l.c.l., works lb. .34½ —
Benzoate, fib dms., works lb 3.00 - —
custom contract lb. 1.65 - 1.85
Salicylate, dms lb 5.00 - —
Sulphate, cns lb 35.00 -36.25
Betanaphthylamine, tech., bbls., works lb 1.05 - 1.10
Betaphenylethylamine, dms., works, 1,000-lb lots lb 1.10 - —
smaller lots lb 1.15 - 1.40
BHC (see benzene hexachloride, technical).

Biotin, cryst., bots ..... gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars ..... lb 5.11 - —
Hydroxide, dms ..... lb 4.65 - —
Metal, oxs., ton lots ..... lb 2.25 - —
Nitrate, cryst., dms ..... lb 2.10 - —
Oxide, anhydrous, dms ..... lb 4.47 5 05
Oxychloride, dms ..... lb 4.37 4.42
Phenolsulphonate, fib dms .... lb 5.22 - —
Subcarbonate USP dms ... lb 3.20 - —
Subgallate, NF, fib. dms ..... lb. 3.15 - —
Subiodide, fib. dms ... lb 5.37 - —
Subnitrate NF, dms .... lb 2.65 - —
Subsalicylate USP dms ..... lb 3.50 - —
Bismuth-ammonium citrate, USP, powd jars lb 4.22 —
Black, acetylene, bgs., c.l., works lb. .17 - —
cs., l.c.l., ship't point ..... lb. .22½- .26
Bone dms., l.c.l., frt. alld lb .15½ .22
Pacific coast bone black prices, 2c per lb higher
Carbon, channel, beads, bulk, c.l., works lb. .07 - —
bgs. c.l., works lb. .0740- —
l.c.l., dlvd or whse lb. .1225- —
uncompressed, regular pos., c.l., works lb. .12 - —
l.c.l., dlvd. or whse lb. .19 - —
furnace, fast extruding ogs., c.l., works lb .06 - —
ctns., l.c.l., whse lb .10 - —
high abrasion, bulk, c.l., works lb. .0750- —
bgs. c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 125
high modulus, bgs., c.l., works lb. .0550- —
ctns., l.c.l., whse ..... lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., l.c.l., whse .. lb. .085 - —

Black, charcoal (see C).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works, lb. .12¾- —
l.c.l., works ..... lb. .13 - —
Lamp, bgs., c.l., works ..... lb. .16 - .45
Mineral, bgs., works ..... lb. .0160- .0675
Black ash (see Barium sulphide).
Blackberry root bark, bls ..... lb. .50 - —
Black dyes (see Dyes).
Black haw root bark, bls ... lb 65 70
tree bark, bls ... lb. 40 .42
Blanc fixe dry ny product bgs. c.l., works ton.155.00 - —
l.c.l., works ..... ton.165.00 - —
direct process bgs. c.l. works ton.100.00 - —
l.c.l. works ..... ton.110.00 —
N Y whse ton 140 88 155 00
pulp, 70%, bbls., c.l., works ton.105.00 - —
l.c.l. works ..... ton.115 00 - —
Bleaching powder dms. c.l. works 100 lbs 5 02 - —
l.c.l., works ..... 100 lbs 6.53 - —
Blood, dried, 16-16½% ammo., bgs. unit-ton. 7.00 - —
high-grade unground, 16-17% ammon., bgs. Chicago unit-ton. 6.75 - —
soluble bgs., c.l. ..... lb .16½ .18
l.c.l. ..... lb. .17½- .25
Bloodroot, bls ..... lb. .60 - .65
Blue alkali dry bbls. dlvd N or Tenn. and N C., & of Miss R. including St Paul Minneapolis, Davenport Rock Island, St Louis lb 2 00 - —
toner bbls. litho flushed, same basis lb 1.15 - —
Chinese, bbls., same basis ..... lb. .48 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
imitation (see Blue, ultramarine).

Blue, copper-phthalocyanine, full strength, bbls., same basis lb. 3.85 - —
resinated, bbls, same basis lb 3.40 - —
water dispersable lb 1.54 - —
Iron (see Blue, Chinese, Milori, Potash (Prussian) and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb 4.05 - —
Milori, bbls., same basis ..... lb. .43 - —
Peacock, fugitive 100% color strength bbls., same basis lb. .75 - —
Potash, CP, bbls. same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .43 - —
soluble, bbls., same basis lb. .43 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine cobalt type dry or pulp, bbls., same basis lb. .30½- .33
jobbing types, bbls., same basis. lb. .16½- .18½
regular types, dry bbls same basis lb. .22½- .35
Victoria toner, molybdic, PMA, bbls lb. 4.10 - —
tungstated, PTMA bbls lb 5.35 —
Blue dry colors dlvd prices 1½c higher Ala., Fla., Ga., La (Shreveport 1¼c), Miss N C., S C., Tenn. (ex El Paso 2c) Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 16c higher Pac Coast Denver Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.

Blue dyes (see Dyes, blue).
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bonemeal steamed, works, E ton.55.00 - —
Bone phosphate defluorinated (see D).
of lime (see Calcium phosphate, tribasic).
precipitate (see Calcium phosphate tribasic NF precip.).
Bones, raw, bulk, Atlantic ports ton.60.00 - —
Borax, tech. anhydrous, bgs., c.l., works ton.78.00 - —
ton lots ex whse, N. Y. or chi ton.125.75- —
smaller lots, same basis. ton.130.75- —
bulk, c.l., works ton.70.00 - —
crystals, 99%, bgs., c.l., works. ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi ton.115.00 - —
smaller lots, same basis. ton.120.00 - —
bbls. c.l., works ton.91.75 - —
ton lots, ex-whse., N. Y. or Chi ton.139.50 - —
smaller lots, same basis. ton.144.50 - —
gran., 99½%, bgs., c.l., works. ton.41.25 - —
smaller lots, same basis. ton.89.00 - —
ton lots, ex whse., N Y Chi ton.94.00 - —
bbls., c.l., works ton.65.75 - —
ton lots, ex-whse., N. Y. or Chi ton.113.50 - —
smaller lots, same basis. ton.118.50 - —
bulk, c.l. works ..... ton.35.75 - —
powder, 99½%, bgs., c.l., works ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis. ton.99.00 - —
bbls., c.l., works ..... ton.70.75 - —
ton lots, ex-whse., N. Y. or Chi ton.118.50 - —
smaller lots, same basis. ton.123.50 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs. USP borax $15 per ton higher.

Bordeaux mixture bgs., c.l., works, frt. alld or nearest whse. point lb. .16 .24
l.c.l. same basis ..... lb. .19 .28
Borneol, cns ..... lb. 2.65 4.50
Borontrifluoride gas, cyls., truckload works lb .62 —
less truckload works lb .70 —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., dlvd. E. of Rockies lb. .27 - —
l.c.l., up to 1,000-lb. lots, same basis lb. .29 - —
dms., lead-lined, dlvd ..... lb. .34 - —
Bromoform, pharmaceutical grade, bots lb 1.92 2.60
cbys ..... lb. 1.52 —
Bromstyrol bots ..... lb. 5.40 5.70
Bronze powder aluminum (See Al.
Gold, litho, cns., dms., works, fib. .75 .85
moulding, cns., dms., works lb. .85 1.00
printing ink, cns., dms., works lb. 1.05 1.25
radiator, cns. dms. works lb. .80 .85
Brown, iron oxide, pure, bgs., c.l., works lb. .13¾- —
l.c.l., works ..... lb. .14 - —
Oxide, metallic, bgs., works .. lb. .04 - —
Sap, crystals, bgs., works ..... lb. .12 - —
powdered bgs lb. .13 —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l. works lb. .04½ .15½
raw, paper bgs. c.l. works lb. .04½ .13
l.c.l. works lb. .04¾ .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 —
l.c.l., works ..... lb. .06¼ .07
Turkey type bgs., c.l. Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .06¾- —
l.c.l., works ..... lb. .07 —
raw, American bgs. works lb. .06¼ .06½
Turkey-type, bgs., works lb. .06¾ .07
Vandyke bbls. works ..... lb. .09½ .12
Brucine, cns., 100-oz. lots ..... oz. .20 - .25
Sulphate NF, cns., 100-oz. lots oz. .15 .30
Buchu leaves, bls. ..... lb. .45 - —
Butadiene, refined, cyls., refinery lb. .22 - —
tanks, refinery ..... lb. .15 - —
Butane, indust., tanks, group 3, gal. .04 - —
Butyl acetate, fermentation, normal, dms., c.l., frt. alld. lb. .15 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .13 - —
synthetic, normal, dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis lb. .13 - —
secondary dms. c.l. dlvd E. lb. .12¾- —
l.c.l., same basis .... lb. .13¼- —
tanks, same basis ..... lb. .10¼- —
Alcohol (see Alcohol butyl).
Aldehyde, dms., c.l., dlvd ..... lb. .21½- —
l.c.l., dlvd ..... lb. .22½- —
tanks, dlvd. ..... lb. .19½- —
Chloride, dms., c.l., works ..... lb. .37½- —
l.c.l., works ..... lb. .38 —
Ether (see Ether butyl).
Lactate, dms., c.l., frt. alld, E of Rockies. lb. .35 - —
l.c.l., same basis ..... lb. .36 - —
tanks, same basis ..... lb. .33 - —
Laurate, dms. works ..... lb. .39 - —
Methacrylate normal, dms. less truckloads works lb. 70 —
Oleate, refd., dms., l.c.l., works lb. .32 - —
Phenylacetate dms lb 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms. l.c.l., frt. equald lb. .24 .27½
Butylamine (see Mono-, Di- or Tri-).
Butyric ether (see ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars ..... lb 6.75 - 7 05
Metal ingots or sticks, cs., dlvd. lb 2.00 - —
Stearate, dms., ton lots ..... lb. 1.42 - —
smaller lots ..... lb. 1.44 - —
Caffeine, natural, USP, cryst., dms., 100 lb lots or more lb. 2.80 - —
anhydrous, dms ..... lb. 3.00 - —
synthetic, USP, cryst., dms., 100 lb. lots or more lb. 2.80 - —
anhydrous, dms., 100 lbs. or more lb. 3.00 - —
Citrated, USP, dms., 100 lb. lots or more. lb. 2.85 - —
Calamine, USP, dms ..... lb. .34 - —

Preparation...

First step to perfection

Like the diamond cutter and his exacting calculations, Canco exercises meticulous care in every detail of container production.

For you, Canco's relentless effort to produce perfect containers means fewer work stoppages on your production lines, lower packing costs and maximum container efficiency throughout your channels of distribution.

Canco's precise specifications for its containers are arrived at only after exhaustive laboratory tests, pilot-line manufacturing trials and experimental packs. This zeal for container perfection also applies to raw materials, packing—even shipping.

That's why the containers which roll off Canco lines can best take your products to market at a profit.

Go first to the people who are first!

AMERICAN CAN COMPANY

CANCO

New York, Chicago, San Francisco; Hamilton, Canada

Canco offers you the finest full line of paint, putty and turp cans available anywhere. Through the years Canco, in cooperation with your industry, has helped you *sell* in all markets more efficiently, more effectively.

Calciferol—Charcoal

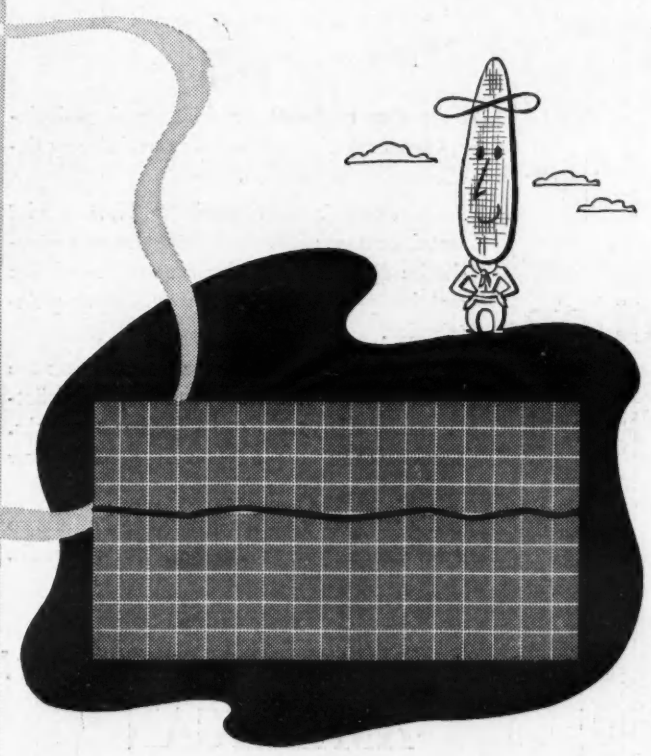
Calciferol cryst. vials, 1 kilo lots, works gram .80 - —
25 to 100 gram lots, works, gram .90 - .95
in edible oil dms. 10,000 or more standard units o standard unit equals 1,000,000 USP units), works unit .04¾ —
5,000 to 10,000 standard units, works unit .05¼ —
less than 1,000 standard units, works unit .05¾ —
Calcium arsenate, dealers, dms., c.l., whse. works, frt. alld on 95 lbs or over lb .09 .10
l.c.l., same basis lb .10 .11
Bromide NF, jars lb .92 - .94
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 - —
Carbonate, natural, dry-grd., air floated, 99.5%—325 mesh, bgs., c.l., works ton. 7.50 -10.00
chalk, whiting, 325 mesh, bgs., works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs. c.l., works ton.30.00 —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
precipitated, dense, bgs., c.l., works ton.30.00 33.00
l.c.l., works ton.40.00 -48.00
medium, bgs., c.l., works ton.35.00 —
l.c.l., works ton.45.00 -50.00
surface treated, bgs., c.l., works ton.35.00 50.00
l.c.l., works ton.45.00 -65.00
ultrafine, bgs., c.l., works ton.110.00 160.00
l.c.l., works ton.120.00 -175.00

Calcium chloride, cryst., purified, dms. lb .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.27.00 - —
liquor, 40%, tankcars works, frt. alld ton.11.50 - —
pellets, bgs., c.l., works ton.33.00 - —
powder, bgs., c.l., works ton.37.65 - —
solid, 73-75% dms c.l., frt equald ton.25.50 - —
l.c.l., works, same basis ton.34.00 -71.00
USP, gran., dms lb .40 - —
Chromate, bgs., frt equald lb .29½- .30
Cyanide, dms., dlvd E of Rockies, lb .24 - .50
Gluconate, AA bbls., dms lb .70 - .72
USP, bbls., dms lb .63 - .65
Glycerophosphate, NF, fib. dms. lb 2.30 - 2.45
Hydride, dms., works lb 2.20 - 4.00
Hypochlorite, high test, cased (45 lbs.), dlvd E. of Rockies cs.22.60 -24.75
dms., 100-lb., same basis dm.28.65 -32.50
Hypophosphite, dms., ton lots or less lb .90 - .93
Iodide, jars lb 4.52 - —
Lactate USP dms., 10,000-lb lots or more, works lb .40 - —
smaller lots, works lb .41 - .48
Mandelate, USP dms., works lb 2.10 - 2.25
Naphthenate, liq. 4% Ca, dms., frt equald lb .27¼- —
Nitrate, tech., bbls., works lb .13 - —
fertilizer grade, bgs., c.l., Los Angeles ton.48.00 - —
Pantothenate, dextro, jars, 100 gram lots or more, frt. adjusted gram .07½- —

Calcium para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt. adjusted lb 7.00 - —
smaller lots, same basis lb 7.05 - 7.50
Phenolsulphonate, dms lb .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. 100 lbs. 7.60 - 7.95
feed grade, bgs., c.l., works, ton.80.00 -90.00
l.c.l., bgs., works ton.85.00 -95.00
monobasic, bgs., 10,000-lb lots, works, frt. equald 100 lbs. 6.40 - —
smaller lots, same basis, 100 lbs. 6.90 - —
tribasic, precip., NF, bgs., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 7.95 - —
Phytate, bgs., works lb .37 - —
Resinate, precip., dms., frt. alld., works lb .27¾- —
Silicate, hydrated, bgs., c.l., works, lb .06 - —
l.c.l., works lb .06½- —
Stearate, ctns., c.l. lb .35 - —
l.c.l. lb .36 - .40
Sulphate (see Gypsum)
Calcium-strontium sulphide, phosphorescent steel pails, 100 to 999 lb. lots, works lb 2.60 - 3.50
fine particle size, same basis, works lb 2.65 - 3.75
Caramel, USP powd dms lb 4.02 - 4.05
Camphene, 46° m.p., dms. incl., c.l., works lb .1930- —
l.c.l., same basis lb .1980- .2115
tanks, same basis lb .1660- —
Chlorinated, 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb 3.00 - 3.12
natural, USP, powd., bbls., 100-lb. lots lb .48 - .50
tablets, 1-oz., ½ oz. cs lb .63 - .65

Camphor, synthetic, tech., bbls., 10 bbls., 1,500-lb. lots lb .55½- —
smaller lots lb .56 - .66
USP, gran., powd., bbls., 2,000-lb. lots lb .57 - —
1,000-lb. lots lb .58 - —
smaller lots lb .59 - —
tablets, tins, 2,000-lb. lots lb .90 - —
1,000-lb. lots lb .91 - —
smaller lots lb .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 2.00 - 2.05
powd., bxs. lb 2.25 - 2.30
Russian, bgs. lb 4.00 - 4.05
powd., bxs. lb 4.35 - 4.40
Capsicum (see Pepper, red).
Oleoresin, NF from domestic pepper, dms. lb 4.00 - 5.50
from African pepper, dms lb 4.75 - 6.25
Caramel coloring, NF, bbls gal 1.05 - 1.20
Caraway seed, Dutch, bgs lb .10¾- .11
Carbazole, 97%, bbls., ton lots, works lb 1.05 - —
Carbinol, methylisobutyl, dms., c.l., dlvd lb .15 - —
l.c.l., same basis lb .16 - —
tanks, same basis lb .13 - —
Carbon bisulphide, 55 gal. dms., c.l., works, frt. alld competitive points lb .0750- —
l.c.l., same basis lb .0850- —
5-gal. dms., c.l., same basis lb .1025- —
l.c.l., same basis lb .1125- —
tankcars same basis lb .0525- —
Dioxide, industrial, wholesale, cyl lb .08 - —
Tetrachloride CP, dms., works lb .11 - .13¾
NF, chys lb .17 - .18
tech., dms., c.l., E. of Rockies, frt. alld lb .0925- —
W. of Rockies, f.o.b. stock-points lb .0975- —
l.c.l., E. of Rockies, frt. alld. alld lb .115 - —
W. of Rockies, f.o.b. stock-points lb .12 - —
tanks, E. of Rockies, frt. alld. lb .0825- —
W. of Rockies, f.o.b. stock-points lb .0875- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, fancy, bleached, A, cs lb 3.25 - —
medium, cs. lb 2.95 - —
decorticated, Alleppey, cs lb 1.70 - —
Guatemalan, cs. lb 1.68 - —
Mangalore type, cs. lb 1.95 Nom.
green, Alleppey, bgs lb 1.30 - —
Ceylon, bgs. lb 1.30 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lb. lots or more, dlvd lb 6.50 - —
smaller lots, dlvd lb 6.65 - 7.15
Carotene, technical, 1,350,000 A units per gram, tins, works gm .55 - —
in carrot oil 5,000,000 to 8,000,000 A units, per lb. dms., works, million units .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works, million units .33 - —
Carvol, bots lb 4.75 - 9.65
Cascara sagrada bark, bulk lb .32 - .34
Casein, dom. acid-precip, standard, bgs., 10,000-lb lots or more, ship't point lb .28 .32
premium bgs., 10,000-lb lots or more, shipt point lb .35 - 40
imported, Argentine, acid-precip., grd., 100-bg. lots or more, duty paid lb .20½- .21½
Cashewnut shell liquid, treated dms., c.l., Newark, N. J lb .22 - —
ton lots, same basis lb .23 - —
dm. lots, same basis lb .25 - —
Cassia, Batavia, cuttings, bls lb .15 - —
longstick, cracked, bls lb .16 - .17
shortstick, cracked, bls lb .16 - —
Saigon, broken, bls lb .60 - —
medium, bls. lb .65 - —
thin, bls lb No Prices
Castor beans, bgs., f.o.b. Brazilian ports long ton.118.00 - —
Oil (see Oil, castor)
Pomace, bgs., c.l., works ton.25.00 - —
Castoreum, artificial, cns lb 9.00 - —
natural, cns lb 5.00 -30.00
Catechol, CP, cryst., fib. dms., works lb 2.17½- —
resublimed dms. works lb 2.29½- —
Catnip leaves, Southern, bls lb .75 - —
Celery seed, French, bgs lb .47 - —
Indian, bgs. lb .20½- —
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., dlvd. lb .40 .45
extrusion compounds, translucent, metallic pearls, special black, dms., c.l., same basis lb .52 —
l.c.l. same basis lb .53 .59
molding, composition, translucent, metallic pearls, special black, dms., c.l., frt. alld lb .48 —
l.c.l., same basis lb .49 .55
reprocessed black, dms., l.c.l. same basis lb .43 .49
Acetate-butyrate flake, 17% butryl content, standard cartons, works lb .54 - —
27% butyryl content, standard cartons, works lb .64 - —
38% butyryl content, standard cartons, works lb .54 - —
50% butyryl content, standard cartons, works lb .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld lb .64 - .71
reprocessed, black, dms., l.c.l., same basis lb .52 - .53
Triacetate, flake, ctns., works, frt. alld. or 100-lb. lots or more lb .50 - —
Cerium hydrate, 74% CeO_2, fib. dms., 100-lb lots or more lb 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb 1.74 - —
Oxalate, NF, bbls., bgs., works lb 1.05 - —
Oxide, optical grade, bgs., 50-lb. lots or more, works lb 1.85 - 1.98
smaller lots, works lb 2.03 - 2.23
Chalk (see calcium carbonate).
Chamomile flowers, Hungarian style, cs lb .90 - 1.00
Roman, cs lb 1.00 - 1.15
Charcoal, activated, NF, fib dms., c.l., works lb .25 - .32
5-ton lots, works lb .26½- .32½
smaller lots, works lb .27 - .50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton.77.00 -86.00
granular, bgs., works ton 77.00 - —
bulk, c.l., works ton.70.40 - —
Pinewood, gran., powd., bgs., c.l., works, south ton.53.50 - —
l.c.l., works, South ton.53.50 -63.50
lump bgs., c.l., works, South ton.50.00 - —
l.c.l., works, South ton.53.00 -67.50
bulk, c.l., works, South ton.33.50 - —

BUY POLYOLS ON FACTS



Sorbitol uniformity is guaranteed by rigid specifications

Sorbitol is made from abundant, pure natural sugar. It is processed under modern, rigid, statistical quality control methods. Its unvarying analysis and freedom from harmful contaminants help protect you against variations in your finished product.

...and sorbitol costs less

In war or peace, even in times of inflation, the price of sorbitol has dropped steadily. This remarkable record has been accomplished through continued expansion and refinement of Atlas manufacturing facilities.

COMPARE ALL FOUR POLYOLS

before you buy...and select the one that proves superior on *every count*. To aid in your choice, Atlas offers complete technical information on sorbitol, and expert engineering service to help apply sorbitol in your specific product. Write for the new book "The Sorbitol Story."

ATLAS
INDUSTRIAL CHEMICALS DEPARTMENT
ATLAS POWDER COMPANY
WILMINGTON 99, DELAWARE
offices in principal cities
ATLAS POWDER COMPANY, CANADA, LTD.
BRANTFORD, CANADA

Chestnut extract, liquid, 25% tannin, bbls., c.l., works lb. .0530 — ; l.c.l., works lb. .0565 — ; tanks, works lb. .0440 — ; powd., 60% tannin, bgs., extra, c.l., works lb. .1128 — ; l.c.l., works lb. .1200 —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - — ; l.c.l., works lb. .24 - — ; tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - — ; 500-lb. lots lb. 1.33 - — ; 100-lb. lots or less lb. 1.35 - 1.40
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlordane, agricultural, dms., pails, c.l., frt. alld lb. .65 - — ; l.c.l., frt. alld lb. .66 - .73 ; refined, dms., c.l., frt. alld lb. .75 - — ; l.c.l., frt. alld lb. .76 - .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .15½- — ; l.c.l., same basis lb. .16½- — ; 70%, dms., c.l., same basis lb. .18 - — ; l.c.l., same basis lb. .19 - —
Rubber, 5, 10, 40 cpts., ctns., c.l., works lb. .55 - — ; l.c.l., works lb. .57 - — ; 125, 1,000 cps., ctns., c.l., works lb. .60 - — ; l.c.l., works lb. .61 - .62
Chlorine, liquid, cyls., c.l., works, frt. equald lb. .0325- .098 ; l.c.l., N. Y. stock points lb. .1025- .1200 ; tanks, single units, works, frt. equald 100 lbs. 2.93 — ; tanks, multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83 ; 3 cars, same basis 100 lbs. 3.80 - — ; 2 cars, same basis 100 lbs. 5.00 - — ; 1 car, same basis 100 lbs. 6.00 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - .182 ; l.c.l., same basis lb. .192 - .20 ; tanks, same basis lb. .17 - .171
USP, dms lb. .30 - .35
Chloro (4), —2 amino-toluene, bbls lb. 1.38 - —
Chlorophyll, oil soluble, 4%, not fixed, tins, pails, works lb. 4.25 - — ; copper fixed, 6½% tins, pails, works lb 4.25 - —
Sodium-copper, aqueous solut., 4% dms., pails, works lb. 3.75 - — ; 8%, pails, dms., works lb. 4.00 - 4.80 ; 14% dms., works lb. 5.90 - — ; concentrated, dom., 50%, dms., works, basis 100% lb 55.00 -60.00 ; 75%, dms., works, basis 100% lb.45.00 -60.00 ; 90%-100%, dms., works, basis 100% lb.45.00 -60.00 ; imported 60%, tins, basis 100% lb.58.00 - — ; 90%, tins, basis 100% lb.58.00 - — ; 75%, tins, basis 100% lb.58.00 - —
Chloropicrin, com'l, bots. lb. 1.50 - — ; cyls., 180 lbs. frt alld lb .95 - — ; 100 lbs. same basis lb .97 - — ; 25 lbs., same basis lb 1.22 - —
Cholesterol, USP, 6lb dms., 250-lb lots lb 6.85 - —
Choline bitartrate, 5lb. dms., frt. adjusted lb. 1.50 - 1.75 ; Chloride 5lb. dms., frt. adjusted. lb 1.50 - 1.75 ; Dihydrogen citrate, 5lb. dms., frt. adjusted lb. 1.50 - 1.75
Chromium acetate powd 12% Cr., bbls., works lb No stocks. ; solut., 7½% bbls. works lb. .08½ — ; cbys. works lb. .10¼ — ; 8½%, bbls. works lb. .09 — ; cbys. works lb .10¾ —
Fluoride bbls., works lb. .51 - .52
Green (see Green, chromium)
Oxide (see Green, chromium oxide)
Oleate, solid, bbls lb. .49 - — ; Trioxide NF bots lb. .82 - .89
Yellow, (see Yellow, chrome).
Chrysarobin, USP bots lb 6.50 - 8.00
Cinchona bark, NF, red, broken, bgs lb. .28 - .30 ; yellow broken, bgs lb. .29 - .30
Cinchonidine, cryst, cns, 100-oz. lots oz. .65 - — ; Sulphate, cns., 100-oz. lots oz. .37 - .40½
Cinchonine cryst., cns., 100-oz. lots. oz. .52 - .57 ; Sulphate, NF, cns., 100-oz. lots oz. .27½ - .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05 ; standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, NF, cns., dms lb. 1.00 - 1.30
Cinnamon, Ceylon, No. 2, bls. lb. .38 - .39 ; "0000," bgs. lb. .47 - —
Citral, bots., cns lb. 3.00 - 3.75
Citronellal bots., dms lb. 1.50 - 2.00
Citronellol, bots., dms lb. 1.70 - 2.20
Civet artificial bots lb 13.75 -15.00 ; natural, bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton.19.50 - — ; crushed, bulk, Tenn ton.10.00 - — ; purified, bgs., c.l., Tenn ton.20.50 - — ; ton.20.50 - —
Clay, ball, imported, airfloated, bgs., c.l., Atlantic port long ton.43.00 -45.00 ; lump, bulk, Atlantic port ton.27.00 -30.00
China, dom dry grd, air-float, 99%, 325 mesh, bgs., c.l., Georgia, works ton.10.50 - — ; l.c.l., Georgia, works ton.15.50 - — ; 300 mesh, bgs., c.l., N. Y. area, works ton.13.50 -14.50 ; l.c.l. ton.35.00 -36.00 ; imported, white, lump, bulk, c.l., ex dock, Phila., Portland and Me gross ton.20.00 -40.00 ; powd., bgs., c.l., ex dock net ton.50.00 — ; l.c.l. ex whse net ton.60.00 -65.00
Clove, Ceylon, bls lb. No prices. ; Zanzibar, bls. lb. 1.03 - 1.05
CMC, purified, high vis. (see Gum cellulose). standard low vis. bgs. 23,000 lbs. or over, works, frt alld lb. .60 - — ; smaller lots, same basis lb. .62 - — ; medium vis bgs., 23,000 lbs or over works, frt alld lb. .57 - — ; smaller lots, same basis lb. .59 - — ; technical high vis. 58% purity, bgs., 20,000 lbs or more, dlvd E., 100% basis lb. .56 - — ; 2,000 to 20,000 lbs. dlvd. E. lb. .58 - — ; less than 2,000 lbs. dlvd E. lb. .62 - — ; low vis., 80% purity, bgs., or fib. dms., 23,000 lbs. dlvd E., basis 100% lb. .41 - — ; less than 23,000 lbs. dlvd. E., basis 100% lb. .43 - — ; 62% purity, bgs., or fib. dms., c.l., dlvd. E., basis 100%, lb. .41 - — ; l.c.l., dlvd. E., basis 100%. lb. .43 - — ; 58% purity, bgs., c.l., dlvd. E basic, net weight lb. .34 - — ; l.c.l., dlvd. E lb. .36 - —

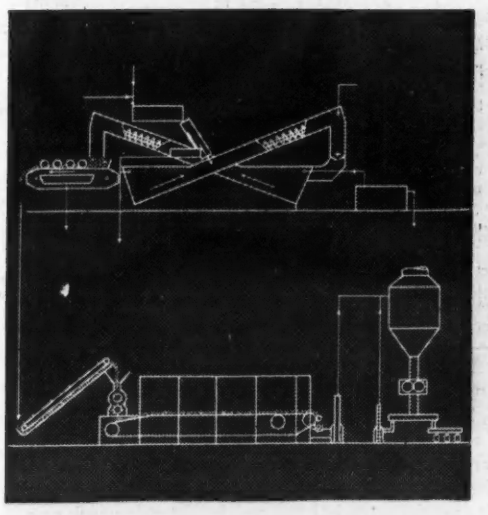
CMC, tech., low vis., 47½% purity, c.l., dlvd., E., basis 100% lb. .41 - — ; l.c.l., dlvd. E lb. .43 - — ; 36½% purity, bgs., c.l., dlvd. E., basis net weight lb. .13½- — ; l.c.l. dlvd E lb. .20 - —
CMC prices W. of the Rockies are 1c. per lb. less than dlvd. E. prices.
Coaltar, crude, resale dms., c.l., ex-whse gal. .275 - .3025 ; l.c.l., ex-whse. gal. .285 - .3135 ; tanks, ex works gal. .154 - .165 ; refined, resale, dms., c.l., ex-whse. gal. .2850- .3135 ; l.c.l., ex-whse gal. .2950- .3245 ; tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7% bbls., dlvd lb. 1.30 - — ; Carbonate, 46%, powd., bgs., dlvd lb. 2.15 - — ; Chloride, 24.2% Co. kgs. dlvd., lb. 1.20 - — ; Hydrate, 60-61% Co., bbls., dlvd. lb. 2.72 - — ; Linoleate fused, 8½% Co., dms. lb. 72 - — ; liquid, 6% Co., dms lb. .53¾- — ; Metal, 97-99% kgs., ex whse lb. 2.60 - — ; Naphthenate, liquid, 6% Co., dms., dlvd lb. .45¾- — ; Nitrate, 20.1% Co., bbls., dlvd lb. 1.06 - — ; Phosphate, powdered, 32.1% Co., kgs., dlvd lb. 1.69 - — ; Oxide, black, 72½-73½% Co., kgs. lb. 1.96 - — ; 70-71% Co., kgs lb. 1.90 - — ; Resinate, fused, 4% Co. dms lb. .27 - — ; Sulphate, cryst., 21% Co. dms., dlvd lb. .89 - — ; monohydrated, 33% Co. dms dlvd lb. 1.40 - — ; Tallate, 6% Co., dms., dlvd lb. .42½- — ; Cocaine, USP, cns., 100-oz. lots oz.15.00 - — ; Hydrochloride, cns., 100-oz. lots oz.11.75 - —

Cochineal USP gray bgs lb .68 - .90 ; Cocillana bark, bgs lb. .45 Nom. ; Cocoa butter, bgs lb. .93 - — ; Codeine, NF, cns 100-oz. lots oz.13.25 - — ; Hydrochloride, cns., 100 oz. lots oz.11.75 - — ; Phosphate, USP, cns., 100-oz. lots oz.10.25 - — ; Sulphate, USP, cns. 100-oz. lots oz.10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .22 - .25 ; blue, bls. lb. .22 - .26
Colchicine, USP, bots., cns oz.35.00 - —
Colchicum root, bls lb. .45 - .55 ; seed, bgs lb. .80 - 1.10
Collodion USP dms lb. .32½- — ; flexible, USP, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls. lb. .18 - .20
Copaiba balsam, cns., dms lb. .85 - .90
Copper acetate bbls, c.l. works lb .34¾- — ; l.c.l., works lb. .35¾- — ; Carbonate, 55%, bgs., works lb. .263 - .278 ; Chloride anhyd., bbls., works lb. .39 - — ; crystals, bbls., works lb. .26½- — ; Cyanide tech, bbls, 1,000-lb. lots or more lb. .619 - — ; smaller lots lb. .639 - — ; Gluconate cns, dms lb 3.00 3.24 ; Hydrate, dms, frt alld E Miss. lb. .40¼ .40¾ ; Metal, electrolytic, dlvd., Valley basis lb. .29½- .30 ; Naphthenate, liquid, 8% Cu., dms., frt alld lb. .22¾- — ; Nitrate, tech, cryst, bbls, works. lb. .30½- — ; Oleate, solid, 9% Cu, dms., works lb. .45 - —

Copper oxide, black, bbls., works lb. .39 - .47½ ; red, com'l, bbls., works lb. .42½- .49¼ ; Oxychloride, bls., frt. alld lb. 40 - .50¼ ; Quinolinolate 6lb dms lb. 4.25 - 4.50 ; Resinate, precip., dms., frt. alld lb. .27¼- — ; Stearate, bgs., 5 tons to c.l., dlvd. lb. .37½- — ; ton lots, dlvd lb. .38½- — ; smaller lots, dlvd lb. .39½- — ; Sulphate, CP, gran., bbls., works lb. .1715- — ; cryst., 99%, bgs., c.l., works, 100 lbs.10.35 - — ; l.c.l., works 100 lbs.10.60 -11.35 ; monohydrated, 35% dms., c.l., works 100 lbs.17.10 -17.65 ; tribasic, dealers, bgs., c.l. works, frt alld 100 lbs.22.50 - — ; l.c.l., works 100 lbs.23.00 -24.50 ; USP, gran., cryst., dms lb. .1715- — ; Undecylenate dms lb. 2.90 3.00
Copperas, gran, bgs, c.l., works ton.34.50 - — ; l.c.l., dlvd., metropolitan area, 100 lbs. 3.35 - 4.25 ; bbls., c.l. works ton.40.00 - — ; bulk, c.l. works ton.27.00 - —
Copra, Atlantic, Gulf ports, c.i.f. ton.217.50 - — ; Pacific ports, c.i.f. ton.215.00 - —
Coriander seed, Argentine, bgs. lb .14 - — ; Czech, bgs lb. .07 Nom. ; Moroccan, bgs. lb. .06¾- .07 ; Roumanian, bgs. lb. .06¾- .07
Corn sugar, tanners, chipped, paper bgs. c.l. 60,000 lbs min. 100 lbs. 7.31 - — ; bgs., l.c.l. 100 lbs. 7.46 - — ; Syrup, 42°, dms., c.l. 100 lbs 7.32 - — ; l.c.l. 100 lbs. 7.47 - —

Sheffield Chemicals—*Sources of new and better products for Industry and Medicine*

THE SHEFFIELD CASEINS



To meet the highest standards of quality and uniformity, all of our caseins are made by SHEFFIELD'S patented continuous process.

For Industrial Use

NEW PROCESS CASEIN. An acid-type casein of time-tested superiority—a premium grade.

HIGH pH CASEIN. For dip processed and foam rubber products. For making emulsions and dispersions.

For Pharmaceutical Use

HIGH NITROGEN CASEIN. Specially prepared to remove whey residues. For dietary supplements. Available in 30 and 80 mesh.

For Laboratory Use

DE-VITAMINIZED CASEIN. An edible protein with high nutritional value and a minimum of vitamin content. For use in biological and nutrition research. Highly recommended for vitamin studies and essays.

For samples and literature write: **SHEFFIELD CHEMICAL COMPANY, INC.**

MAIN SALES OFFICE, NORWICH, NEW YORK;
OR BRANCH SALES OFFICE, 1267 SIXTH AVENUE, NEW YORK 19, N. Y.

A DIVISION OF NATIONAL DAIRY PRODUCTS CORPORATION

Corrosive Sublimate—Di-iso-octyl Phthalate

Corrosive sublimate, NF, cryst., dms. 50-lb lots or more lb 3.68 - —
gran. powd. dms., 50-lb lots or more lb 3.53 - —
Cortisone acetate, NNR, bulk gm. 4.75 - —
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.25 - —
Meal, 41%, sacked, mills....ton.58.00 -60.00
38%, same basis.....ton.55.00 -57.00
Coumarin cryst. NF cns..... lb 2.94 3.15
powd. cans..... lb 3.20 3.25
Cramp bark, NF, bls.....lb. .85 - —
Cream of tartar, NF dom. gran. or powd. dms., c.l. lb. .32 - —
bbls. 5,000 lbs one shipment lb. .32½ - —
smaller lots, bbls., kgs. lb. .33 - .36
Imported, kgs.....lb. .24 .23
Creosote carbonate, NF, bots. cbys. lb. 3.05 - 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 - —
solution 80% tanks works. gal. .2068-
refined, dms., c.l. works gal. .3850- —
l.c.l. same basis gal. 4510- —
tanks, same basis gal. .2970- —
Wood, beechwood, cbys., dms. lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb. 1.30 - 1.35
pinewood, dms., works gal. .42½ .50½
Cresol, tech. 50% below 204 C., dry above 207 C. wide distillation range, non ref. dms. c.l. frt equald lb .133 - —
l.c.l., same basis lb .136 - —
ref. dms., c.l. same basis lb .1325- —
l.c.l., same basis lb. .1375- —
tanks, same basis lb. .120 .1225
Cresol, USP, non-ref. dms., c.l., same basis..lb. .143 - —
l.c.l., same basis lb. .146 - —
ref. dms., c.l., same basis... lb. .140 - —
l.c.l., same basis lb. .145 - —
tanks, same basis lb. .120 - —
Crotonaldehyde, 91-93%, dms., l.c.l., works..lb. .24¼- .25
Cryolite, nat., industrial, bgs., c.l., works 100 lbs.10.50 —
l.c.l., works .....100 lbs.11.25 -11.50
Insecticide, dealers, bgs., c.l., dlvd..100 lbs.14.00 - —
l.c.l., dlvd. .....100 lbs.15.00 - —
Cube root, powd., 5% rotenone, bgs., works lb. .23 - —
Cubeb berries, XX, NF, bgs..... lb. .50 - .51
powd., cs.....lb. .58 - .59
Cumene, dms., c.l., works.....lb. .12 - —
l.c.l., works .....lb. .14 - —
tanks, works .....lb. .11 - —
Cumin seed, Iranian, bgs.....lb. .14 - .14¼
Moroccan, bgs.....lb. .14 - —
Turkish, bgs.....lb. .13½- .14
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. .08½- —
Cyanamide fertilizer mixing grades, 20 6% N, gran., bgs., Niagara Falls, Ont., contract ton.55.00 - —
pulv., 21% N, bgs., works unit-ton. 2.75 - —
Cyclohexane, tech., dms., c.l., works, gal. .70 - —
l.c.l., works.....gal. .72 - —
tanks, works .....gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¼
l.c.l., works, same basis .. lb. .30 - .38¼
tanks, works, same basis .. lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works..lb. .33½- —
l.c.l., works.....lb. .35 - —
tanks, works.....lb. .32 - —
Cyclohexylamine, dms., c.l., works, lb. .46½- —
l.c.l., works .....lb. .47½- —
tanks, works.....lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works, cyl.48.00 - —
6 oz. cyls., works.....cyl.12.00 - —
USP, hospitals, cyls., 40-gal. lots gal. .58 - —
100-gal. lots.....gal. .37 - —
200-gal. lots.....gal. .36 - —

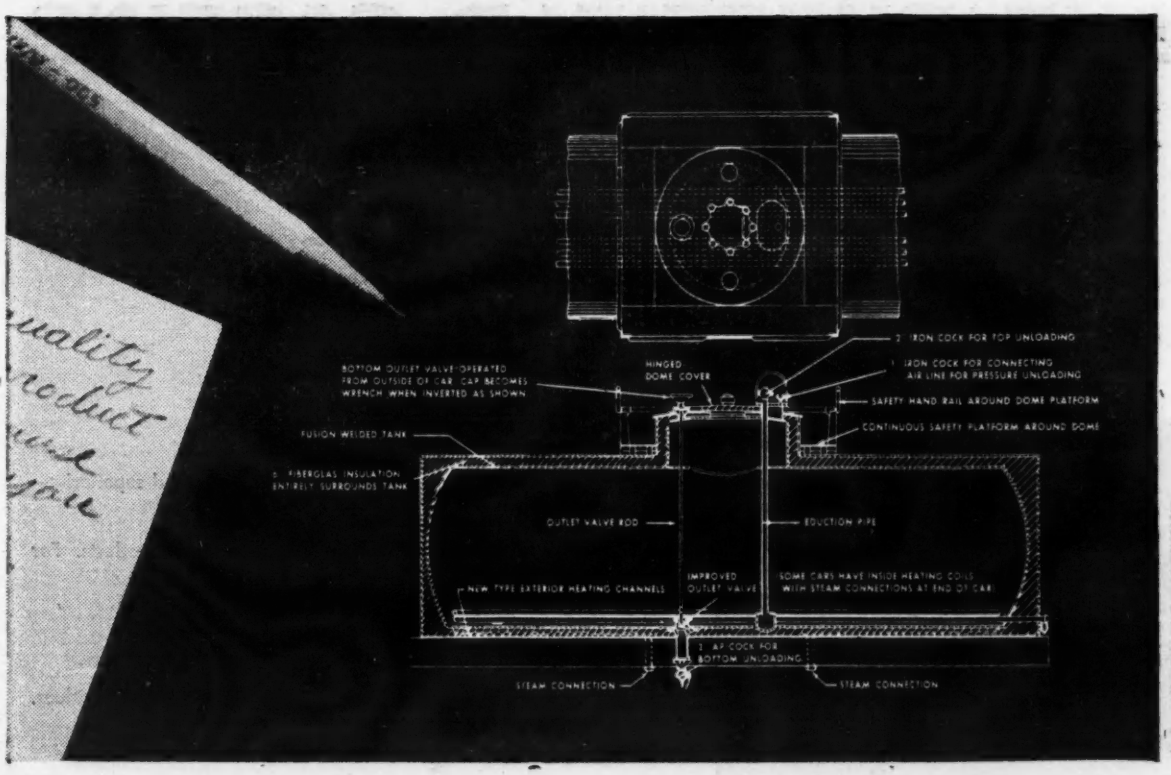
D

2-4-D, bbls., c.l., works, frt. equald. lb .51 - —
l.c.l., same basis.....lb. .56 - .63
Isopropyl ester, dms., c.l., works, lb. .55 - —
l.c.l., works .....lb. .60 - .67
Dandelion root, bls.....lb. .35 - .40
DDD, tech., fine grd., fib. dms., c.l., works lb. .50 - —
l.c.l., works .....lb. .51 - —
DDT powder, fiber dms., c.l., works, frt. equald. lb. .28 - —
smaller lots, same basis.....lb. .30 - —
bags, c.l., same basis.....lb. .27 - —
smaller lots, same basis....lb. .29 - —
Decanol, normal, tech., dms. c.l., dlvd lb. .33 - —
l.c.l., dlvd .....lb. .37 - —
tanks, dlvd. .....lb. .32½- —
Deertongue leaves, bls.....lb. .45 - .48
Defluorinated phosphate, 13% P paper bgs., works ton.40.25 - —
17% P, paper bgs., works, ton.56.00 - —
Rock, 14½% P, paper bgs., works ton.30.00 - —
Degras, common, bbls.....lb. .12 - .13
neutral, less 2% ffa., bbls.....lb. .27 - .29
over 2% ffa., bbls.....lb. .26 - .28
Derris root, 5% rotenone powd., bbls lb. .26 Nom.
Desoxyephedrine hydrochloride dextro, bots lb 25.00 - —
dextro-laevo, bots. .....lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 8.95 - —
l.c.l. .....100 lbs 9.10 - —
canary paper bgs, c.l....100 lbs 8.69 - —
l.c.l .....100 lbs 8.84 - —
dark, paper bgs., c.l....100 lbs 8.79 - —
l.c.l .....100 lbs 8.94 - —
white, paper bgs., c.l.. 100 lbs. 8.53 - —
l.c.l. .....100 lbs 8.68 - —
Corn dextrin in cotton bgs 25c per 100 lbs higher.
Potato, bgs.....lb. .10½ .11
Dextrose, USP, dms.....lb. .17¾ —
Diacetone (see Alcohol diacetone)
Diacetyl, flavor grade, bots .... lb. 4.50 5.50
Diamyl ether (see Ether, amyl).
Dianisidin, dms. .....lb 2.60 - —
Diatomaceous earth, reg., bgs., c.l., dlvd., California...ton.50.00 - —
East coast.....ton.61.00 - —
l.c.l. ex whse .....ton.90.00 -100.00
purified, bgs., c.l., dlvd., California...ton.65.00 - —
East coast.....ton.75.00 -110.00
l.c.l., ex whse.....ton.100.00 -110.00
Dibenzyl sebacate, CP, dms., c.l., E lb. .89¾- —
l.c.l., same basis.....lb. .99¼- .99¾
tanks, same basis.....lb. .88 - —
Dibutyl phthalate dms., c.l. dlvd., E lb. .35¾- .36
l.c.l., same basis.....lb. .36¾- .37
tanks, same basis.....lb. .34 - —
Sebacate, dms., c.l., works ...lb. .81½- —
l.c.l., works.....lb. .82 - .82¼
tanks, works.....lb. .80 - —
Tartarate dms. works frt alld lb .71 - —
Dibutylamine, dms., c.l., dlvd....lb. .55 - —
l.c.l., same basis.....lb. .56 - —
tanks, same basis .....lb .53 - —
Dicaprvl pathalate, dms., c.l., dlvd. lb. .34½- .34¾
l.c.l., dlvd. .....lb. .35 - .35¾
tanks, dlvd. .....lb. .33 - —
Sebacate, dms., c.l., works.....lb. .68 - —
l.c.l., works .....lb. .68½- .69
tanks, works.....lb. .66½- —
Dichloroanilin, dms., works.....lb. .75 - .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichlorethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .05 - —
l.c.l., works .....lb. .05¾- —
tanks, works .....lb. .04¼- —
Dicyclonexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works.....lb. .51¾- —
tanks, works .....lb. .49¾- —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld..lb. .60 - —
l.c.l., same basis .....lb. .61 - —
Dieldrin, dms., frt. alld .....lb. 1.80 - —
l.c.l., frt. alld.....lb. 2.40 - —
Diethanolamine dms., c.l., dlvd E. lb. .29¼- —
l.c.l. same basis.....lb. .30¼- —
tanks, same basis .....lb. .27½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .46¾- —
l.c.l. same basis .....lb. .47¾- —
tanks, same basis .....lb. .45 - —
Maleate, dms., c.l., dlvd.....lb. .50 - —
l.c.l. dlvd .....lb. .48¼- —
tanks, dlvd .....lb. .43½- —
Oxalate, dms., c.l., frt. alld....lb .41¾- —
l.c.l. same basis .....lb. .42¾- —
tanks, same basis .....lb. .40 - —
Phthalate, dms., c.l., dlvd.....lb. .27 - —
l.c.l., dlvd. .....lb. .28 - —
tanks, dlvd. .....lb. .25 - —
Sulphate, dms., c.l., works.....lb. .18¾- —
l.c.l. works .....lb. .19¼- —
tanks works .....lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½- —
l.c.l., same basis.....lb. .51½- —
tanks, same basis .....lb. .48½- —
Diethylanilin, dms., c.l., frt. alld., lb. .51 - —
l.c.l., same basis.....lb. .52 - —
tanks, same basis .....lb. .50 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Di-2-ethylhexyl phthalate (see Dioctyl phthalate).
Diethyleneglycol, dms., c.l., dlvd E. lb. .20¼- —
l.c.l. same basis.....lb. .21¼- —
tanks, same basis .....lb. .18½- —
Borihorate dms. l.c.l .....lb. .30½- —
Diethylether, dms., c.l., works lb. .46½- —
l.c.l., works .....lb. .47 - —
Monobutylether, dms., c.l., works lb. .28¾- —
l.c.l., works.....lb. .29¼- —
tanks, works.....lb. .27 - —
Acetate, dms., c.l., works....lb. .30 - —
l.c.l. works .....lb. .30½- —
tanks, dlvd. E.....lb. .25¼- —
Monoethylether dms., c.l., dlvd.lb. .20¾- —
l.c.l., dlvd.....lb. .21½- —
tanks, dlvd.....lb. .19½- —
Acetate, dms., c.l., works....lb. .28¾- —
l.c.l., works.....lb. .27¼- —
tanks, dlvd. E.....lb. .25¼- —
Monomethylether, dms., c.l., works. lb. .20 - —
l.c.l., works.....lb. .21 - —
tanks, works.....lb. .18½- —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l. same basis.....lb. .44 - —
tanks, same basis.....lb. .41½- —
Diethylethanolamine, dms., c.l., dlvd lb. .67½- —
l.c.l. same basis.....lb. .68½- —
tanks, same basis.....lb. .65½- —
Diethylstilbestrol, USP, bots., 10-kilo lots. kilo.110.00 - —
1 kilo lot.....kilo.120.00 - —
Digitalis leaves, USP, dom., dms., lb. .90 - 1.10
Digitoxin, USP, bots. .....gram. 5.50 - 6.50
Diglycol laurate, dms.....lb. .35½- .42
Oleate, dms.....lb. .28½- .29¼
Stearate, dms.....lb. .25 - .26½
Dihexyl sebacate, dms., c.l., works lb. .73¾- —
l.c.l., works .....lb. .74¼- .74¾
tanks, works .....lb. .72 - —
Dihydrazine sulphate dms. works lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk..gram. .17 - —
Sulphate, bulk.....gram. .17 - —
Dihydroxydichlorodiphenylmethane, pure, dms lb. 2.80 - 3.00
tech., dms .....lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd.....lb. .16½- —
Phthalate, dms., c.l., dlvd. E..lb. .35 - —
l.c.l., same basis.....lb. .36 - —
tanks, same basis.....lb. .33 - —
Di-isobutylene, dms., c.l., works..lb. .10 - —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd..lb. .37 - —
l.c.l., same basis.....lb. .38 - —
tanks, same basis.....lb. .35 - —

DOW

MODERN TANK CARS MAINTAIN HIGH QUALITY OF DOW CAUSTIC SODA FROM PLANT TO YOU

Special design permits safe, fast shipment and convenient unloading


BOTTOM OUTLET VALVE OPERATED FROM OUTSIDE OF CAR. CAP BECOMES WRENCH WHEN INVERTED AS SHOWN
HINGED DOME COVER
2" IRON COCK FOR TOP UNLOADING
1" IRON COCK FOR CONNECTING AIR LINE FOR PRESSURE UNLOADING
SAFETY HAND RAIL AROUND DOME PLATFORM
CONTINUOUS SAFETY PLATFORM AROUND DOME
FUSION WELDED TANK
FIBERGLAS INSULATION ENTIRELY SURROUNDS TANK
OUTLET VALVE ROD
EDUCTION PIPE
NEW TYPE EXTERIOR HEATING CHANNELS
IMPROVED OUTLET VALVE
SOME CARS HAVE INSIDE HEATING COILS WITH STEAM CONNECTIONS AT END OF CAR
3" AP COCK FOR BOTTOM UNLOADING
STEAM CONNECTION
STEAM CONNECTION

All of Dow's caustic soda shipping points throughout the country maintain a large fleet of modern tank cars.

Each of these Dow owned cars is insulated, protectively lined and fitted with nickel heating coils. They are equipped to permit unloading from the top or bottom by air pressure or pump. There are frangible discs or safety valves to prevent possible injury to workers from excessive air pressure, and they have protective plug cocks on the bottom outlet leg.

When you order caustic soda solution from Dow, regardless of whether shipment is made from Dow's four large plants at Midland, Michigan; Freeport, Texas; Pittsburg, California and Sarnia, Canada or from terminals at Carteret, New Jersey; Charleston, South Carolina or Los Angeles, California, you can be certain of dependable delivery of high quality caustic. All tank cars are expertly maintained and thoroughly washed and inspected before every loading. Caustic soda 50% solution and 73% solution are delivered in 8,000 and 10,000-gallon tank cars.

The next time you buy caustic soda, whether it is solution, solid, flake or ground flake, buy from Dow. Write for Dow's CAUSTIC SODA HANDBOOK for complete unloading, handling and product information. Wherever you are, you're close to Dow caustic soda. THE DOW CHEMICAL COMPANY, Midland, Michigan.

you can depend on DOW CHEMICALS

DOW

Di-isopropylamine dms., c.l., dlvd. E. of Rockies lb. .50 - —
l.c.l., same basis lb. .51 - —
tanks, same basis lb. .45 - —
Dillseed, dewhiskered, bgs. lb. .16 - .16½
natural, bgs. lb. .14 - .14½
Dimethyl anthranilate, cns. lb. 5.25 - 5.75
Chloroacetal dms., c.l., works lb. .53 - —
l.c.l. works lb. .55 - —
tanks works lb. .51 - —
Hydroquinone, dms. lb. 1.70 - 2.75
Phthalate, dms., c.l., dlvd. lb. .29½ - —
l.c.l., dlvd. lb. .30½ - —
tanks, dlvd. lb. .27½ - —
Sebacate, dms., c.l., works. lb. 1.26¾ - —
l.c.l., works lb. 1.27¼ - 1.27¾
tanks, works lb. 1.26 - —
Sulphate, 55 gal., ret., dms., c.l., works lb. .15 - —
l.c.l. works lb. .16 - —
10 gal. ret dms., l.c.l., works. lb. .16½ - —
Dimethylamine, 25-40%, dms., c.l., frt. equald .37 - .38
l.c.l., frt. equald .37½ - .38½
tanks, frt. equald lb. .33 - —
Dimethylanilin, dms., c.l., frt. alld. lb. .29½ - —
l.c.l., frt. alld lb. .30½ - —
tanks, frt. alld lb. .28½ - —
Dimethylethanolamine, anhydrous, dms., c.l., dlvd lb 1 43 - —
l.c.l. dlvd lb 1.45 - —
tanks, dlvd lb. 1.40 - —
Dimethylethanolamine, 70%, dms., c.l., dlvd., basis 100%. lb. .55 - —
l.c.l., dlvd. lb. .56 - —
tanks dlvd lb. .53 - —
Dimethylformamide dms., works lb. .34 - —
tanks, works lb. .33 - —
Dinitroaniln, dms., frt. equald lb. .57 - —
Dinitrobenzene crude dms lb. .20 - —
purified dms lb. .22 - —
Dinitrochlorobenzene dms., c.l., frt. alld E lb. .15¼ - —
l.c.l. frt. alld E lb. .15¾ - —
tanks, frt alld E lb. .15 - —
Dinitrophenol, bbls. lb. .37 - —
Dinitrotoluene oily dms. lb. .10 - —
refined dms. lb. .21 - —
Dioctyl adipate, dms., c.l., works lb. .46¾ - .47
l.c.l., works lb. .47¼ - .48
tanks, works lb. .45 - —
Phthalate, dms., c.l., frt. alld. lb. .37 - —
l.c.l., frt. alld. lb. .38 - —
tanks, frt. alld. lb. .35 - —
Diorthotolyiguanidin dms. ton lots, dlvd. lb. .57 - —
smaller lots, dlvd lb. .58 - —
Dioxane, dms., c.l., works lb. .28¾ - —
l.c.l. same basis lb .29¼ - —
tanks, same basis lb. .27 - —
Dip oil (see tar acid oil).
Dipentaerythritol, bgs., c.l., works, lb. .34 - —
l.c.l. works lb. .37 - —
Dipentene, dest.-dist., dms., extra, c.l., works gal. .49 - —
l.c.l., works gal. .50 - —
ex-whse. gal. .68 - —
steam-dist., dms., c.l., works, South gal. .68 - —
dlvd. N. Y. gal. .87 - —
tanks, works, South gal. .55 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l. works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns. lb. .54 - .61
Phthalate dms. c.l. works lb. .51¾ - —
l.c.l. same basis lb .53¾ - —
Diphenylamine refined, gran. bbls., c.l., works lb. .28 - —
l.c.l. works lb. .30 - —
tanks, works lb. .25 - —
tech. tanks, works lb. .24 - —
Diphenylguanidin, dms., ton lots lb. .48 - —
smaller lots lb. .49 - .50
Diphenylhydantoin sodium USP dms. lb 5.30 - 5.60
Dipropyleneglycol dms., c.l., frt. alld lb. .16¾ - .17
l.c.l. same basis lb. .17¾ - .18
tanks, same basis lb .15 - —
Methylether, dms., c.l., dlvd. E lb. .20¾ - —
l.c.l. same basis lb. .21¾ - —
tanks, same basis lb. .19¼ - —
Di-secondary-amylphenol, dms., c.l., works lb. .30¼ - —
l.c.l., works lb. .33¼ - —
tanks, works lb. .28¼ - —
Di-tertiary-amylphenol, dms., c.l., works lb. .30¼ - —
l.c.l., works lb. .33¼ - —
tanks, works lb. .28¼ - —
Di-tertiary butylmetacresol dms. c.l., works lb .31 - —
l.c.l. works lb. .32 - —
tanks, works lb. .30 - —
Di-tertiary butylparacresol, dms. c.l., works lb. .92 - —
l.c.l., works lb .95 - —
Divi-divi, 45% tannin bgs., bls., c.l. U.S ports exdock ton 70 00 -72.00
Divinylbenzene 20-25%, dms., c.l., works lb. .20 - —
l.c.l., works lb .21 - —
tanks, works lb .19 - —
40-50%, dms., c.l., works, basis 100% lb. 1.00 - —
l.c.l., works, basis 100% lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½ - —
l.c.l., same basis lb. .15½ - —
tanks, same basis lb. .12½ - —

Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb and 1-lb. lots dlvd.:—
Blue, FD & C, No. 1, cns. lb.17.00 -17.60
No 2 cns lb 17 00 17 60
Green, FD & C, No. 1, cns. lb.17.00 -17.60
No. 2. cns lb 22 20 -22.85
No 3. cns lb 35 25 -35 90
Orange, FD & C, No. 1, cns. lb. 3.65 - 3.75
No 4 cns lb 4.65 - 4.75
Red, FD&C, No. 1, cns. lb 4 55 7.85
No. 2, cns lb 4.00 4.10
No. 3, cns lb 22 20 -22.85
No. 4, cns lb 7.20 7 50
No 32 cns lb 5 30 5 40
Violet, FD & C, No. 1, cns. lb.17.00 -17.60
Yellow FD&C, No 1, cns lb 10 50 -11.05
No. 3. cns lb. 3.30 3.40
No. 4. cns lb 3.30 3.40
No. 5 cns lb 4.00 4.10
No 6. cns lb 4.00 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb lots, works, 25-50 lb. lots, dlvd.:—
Black, D&C, No. 1, cns lb 10 95 - —
Brown, D&C, No. 1, cns lb 16 10 - —
Green, D&C, No. 5, cns lb.16 10 - —
No. 6, cns lb.16 10 - —
No. 7 cns lb.14 80 - —
Orange, D&C, No. 3, cns lb.10.95 - —
No. 4, cns lb.20.05 - —
No. 5, cns lb 5 70 - —
No. 10. cns lb.20 70 - —
Red, D&C, No. 8, cns lb. 2.85 - —
No. 9, cns. lb. 2.85 - —
No. 10, cns. lb 2.30 - —
No. 11, cns. lb. 1 85 - —
No. 12, cns. lb 2.65 - —
No. 17 cns. lb.10.95 - —
No. 18 cns. lb.24.00 - —
No. 19 cns. lb 15 45 - —
No 21, cns. lb 3 60 - —
No. 22, cns. lb 10.95 - —
No 28 cns. lb 24.65 - —
No. 33 cns lb.17 45 - —
Violet D&C No. 2. cns lb 16 10 - —
Yellow D&C, No. 7, cns lb 10.95 - —
No. 10, cns lb 13.50 - —
No. 11, cns lb.13.50 - —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb lots, works, 25-50 lb. lots dlvd:—
Blue, Ext., D&C, No. 1, cns. lb.16.10 - —
Green, Ext., D&C, No. 1, cns. lb 16.10 - —
Red Ext., D&C, No. 1, cns. lb.13.50 - —
Yellow Ext., D&C No 1 cns lb.10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.
20 Chrysoidine Y lb. .74 - —
27 Fast light orange 2G. lb. .90 - —
31 Phloxine 2G lb. .74 - —
36 Yellow 2G lb. .83 - —
40 Orange R extra, conc. lb. 1.06 - —
57 Fuchsine 6B lb. 1.03 - —
79 Scarlet 2R lb. .81 - —
151 Orange AD lb. .55 - —
161 Orange RR lb. .66 - —
176 Fast red A lb. .99 - —
179 Rubine XX, conc lb. 1.14 - —
180 Blue F4B lb. .92 - —
183 Brilliant scarlet 3RN, conc lb. .93 - —
202 Chrome blue black, conc lb. .75 - —
203 Chrome black T lb. .78 - —
208 Fast blue SR lb. .91 - —
216 Chrome red B lb. .84 - —
234 Brown Y lb. .98 - —
246 Blue black, extra, conc lb. .95 - —
275 Milling red 3R, conc lb. 2.03 - —
289 Navy blue 3R, conc lb. 1.19 - —
299 Black F conc lb. 1.54 - —
304 Neutral black 2B, conc., 200% lb. 2.01 - —
326 Fast scarlet 4BNC lb. 1.64 - —
332 Bismarck brown, RX, conc. lb. .93 - —
365 Brilliant yellow, conc. lb 2.57 - —
382 Scarlet B lb. 1.82 - —
401 Diazo black, BHD lb. .69 - —
406 Blue 2B, extra conc lb. 1.07 - —
419 Red FC conc lb. 1.12 - —

Di-isopropylamine—Dyes, Coaltar, for Stains, Spirit-Soluble

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour index scale or prototype), contract, dlvd., No.
420 Brown M lb. .98 - —
448 Red 4BX, conc lb. 1.30 - —
518 Diamine sky blue FF, extra, conc lb. 1.50 - —
561 Brown B lb. 2.03 - —
581 Direct black EB lb. .94 - —
593 Green BY, conc lb. .72 - —
596 Yellow Brown K extra lb. .91 - —
620 Yellow 2G lb. 1.01 - —
639 Fast yellow 2G lb. 1.79 - —
640 Yellow XX lb. 1.61 - —
655 Yellow OX lb. 2.04 - —
657 Green V lb. 2.10 - —
662 Brilliant green G lb. 2.79 - —
667 Brilliant milling green 6B, conc lb. 3.68 - —
671 Blue, EG lb. 1.70 - —
681 Crystal violet powder lb. 2 15 - —
698 Violet 4BXN lb. 1.74 - —
720 Brilliant blue, BRG lb. 1.88 - —
729 Blue B, conc lb. 2.79 - —
749 Red BX lb. 4.33 - —
814 Yellow, NN, Conc lb. 3.11 - —
841 Safranine GF, extra, conc., lb. 3.17 - —
855 Nigrosine, WSJ lb. 75 - —
922 Blue GXX lb. 1.71 - —
978 Black GXCF conc lb. .92 - —
1034 Alizarine red SC lb 2.59 - —
1054 Alizarine blue SAPX lb. 2.91 - —
1078 Alizarine green CG, extra. lb. 2 72 - —
1088 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange, GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste. lb. 1.75 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour index scale or prototype), contract, dlvd., No.
1101 Jade green N, double paste. lb. 1 98 - —
1106 Blue RS double paste lb 2 95 - —
1113 Blue BLFD double paste lb 2 25 - —
1150 Olive R single paste lb 1 10 - —
1151 Brown R, single paste lb 1 76 - —
1171 Indigo, synthetic, 20% paste lb. .31 - —
1217 Orange RD single paste lb 1.65 - —
p-4 Brown PG lb 2.30 - —
p-24 Gray L lb 1 60 - —
p-14 Brown EB lb 1 51 - —
p-80 Diazo brilliant scarlet ROAD lb 2 79 - —
p-202 Diazo black VJ conc lb 1 74 - —
p-244 Brilliant scarlet BN lb 1 21 - —
p-313 Naphthol SWF lb 2 42 - —

Dyes, coaltar for stains, oil-soluble, 100-lb dms., sellers works.
Black blue No 550 lb 81 - —
Jet No 551 lb 89 - —
Brown R, conc lb 1 72 - —
Orange R brilliant lb 90 - —
Red 4 B, conc. lb 1.37 - —
Yellow G lb 1 18 - —
FN, conc. lb 1.22 - —

Dyes, coaltar for stains, spirit-soluble, 100 lb dms., sellers works:—
Auramine O lb 1 85 - —
Black basic blue lb 1 21 - —
Jet lb 1 21 - —
Blue, methylene, 2 B, conc lb 1 71 - —
Brown, Bismarck R conc lb 86 - —
Chrysodine, R, extra lb. 60 - —
Y extra lb 64 - —
Fuchsine, conc lb 3.08 - —

Send for your copy NOW!

This all-new bulletin gives a complete list of the products available from Dewey and Almy's Organic Chemicals Division. Contains brief description of chemical properties and uses of each. Write for your copy . . . *today!*

DEWEY and ALMY CHEMICAL COMPANY

ORGANIC CHEMICALS • CRYOVAC PROCESS FOR FOOD PACKAGING • ADHESIVES • SEALING COMPOUNDS
BATTERY SEPARATORS • SODA LIME • METEOROLOGICAL BALLOONS • CONSTRUCTION PRODUCTS

Sales Offices: 62 Whittemore Avenue, Cambridge 40, Massachusetts; 6050 W. 51st Street, Chicago 38, Illinois

West Coast: Martin, Hoyt and Milne, Incorporated, Los Angeles • San Francisco • Seattle • Portland

Offices or Subsidiaries in Buenos Aires, Chicago, Copenhagen, London, Melbourne, Milan, Montevideo, Montreal, Naples, Paris, San Leandro (Calif.), São Paulo, Tokyo

Dyes, Coaltar, for Stains, Spirit-Soluble—Furfural

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms, sellers' works:—
- Green malachite cone lb 2.10 - —
- Rhodamine, B lb 4.33 - —
- Safranine Y cone lb 2.90 - —
- Violet, methyl B lb 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb dms, sellers' works
- Azo rubine R extra conc lb 1.04 - —
- Black, acid blue B, extra lb .86 - —
- Fast light, 3 G, extra lb 2.04 - —
- Methanil conc lb .91 - —
- Orange Acid Y conc lb .47 - —
- Scarlet cryocene, MOO lb 1.45 - —
- Yellow azo conc lb .90 - —

Oil soluble, spirit-soluble, water soluble dyes in kegs, 3c higher; tins, 10c higher.

E

Echinacea root, bls lb. 1.25 - —
Egg albumen (see Albumen).
- Yolk, dried, dom., bbls lb. 1.33 - 1.40
- tanners, bbls lb. .06 - .06½

Elder flowers, bright bls lb 30 .40
Elm bark, grinding, bls lb. No prices.
- powd., bbls., bxs lb. .60 - —
- select, bundles lb. .65 - —

Emetine hydrochloride, USP, bots oz. 32.95 -35.00
Ephedrine synthetic, USP, anhydrous bots., 100-oz lots oz. .98 - 1.00
hydrous bots., 100-oz lots oz. .93 - —
Hydrochloride, tin, 100-oz lots oz. .75 - —

Ephedrine sulphate, cryst., tins, 100-oz. lots oz. .72 - —
powd., tins, 100-oz. lots oz. .73 - —
Epichlorohydrin, dms., c.l., works lb. .39 - —
l.c.l., works lb. .40 - —
tanks, works lb. .37 - —
Epinephrine, synth. USP, bots., 100 gram lots gram .45 - .55
Epsom salt, tech., bgs., c.l., works, 100 lbs 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs 3.10 - —
smaller lots 100 lbs. 3.35 - —
Ergosterol, unirradiated, cryst gilo 150.00 - —
Ergot, NF, dms., tin-lined lb. 3.50 - 4.00
Eserine, bots oz. 45.00 -50.00
Salicyl, USP, bots lb. 29.75 -32.50
Sulphate, bots oz. 34.50 -35.61
Ether acetate (see Ethyl acetate)
Butyl, dms., c.l., works lb. .31½ - —
l.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Butyric (see Ethyl butyrate).
Dichloroethyl, refd., dms., c.l., dlvd. E lb. .14 - .14½
l.c.l., same basis lb. .15 - .16
tanks, same basis lb .13 - —
technical, dms., c.l., works lb .13 - —
l.c.l., works lb. .13½ - —
tanks, works lb. .12 - —
Ethyl, absolute, ACS, dms lb. .37 - —
anesthesia USP hospitals, 1-lb. cns lb .89 - —
½-lb. cns lb. .97 - —
¼-lb. cns lb. 1.05 - —

Ether ethyl, solvent, USP, dms., c.l., dlvd lb. .15¾ - —
l.c.l., same basis lb. .16¾ - —
tanks, same basis lb. .13¾ - —
synthetic, dms., c.l., dlvd. E lb. .12 - —
l.c.l., same basis lb. .13 - —
tanks, same basis lb. .10 - —
Isopropyl, dms., c.l., dlvd lb. .07 - —
l.c.l., dlvd. lb. .08 - —
tanks, dlvd lb. .05 - —
Nitrous, conc., bots., 100-lb. lots lb. 1.28 - 1.35
Vinyl, USP, anesthesia, bots. 50 cc. hospitals bot. 1.12 - —
75 cc. hospitals bot. 1.56 - —
Ethyl acetate, natural, fermentation 85-88%, dms., c.l. frt. alld. lb. .13 - —
l.c.l., frt. alld. lb. .14 - —
tanks, frt. alld lb. .11 - —
95-96%, dms., c.l., frt. alld. lb. .13¼ - —
l.c.l., frt. alld. lb. .14¼ - —
tanks frt alld lb. .11¼ - —
99%, dms., c.l., frt. alld. lb. .13½ - —
l.c.l., frt. alld. lb. .14½ - —
tanks frt alld lb. .11½ - —
synthetic, 85-98%, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd lb. .11 - —
95-98%, dms., c.l., dlvd lb. .13¼ - —
l.c.l., dlvd. lb. .14¼ - —
tanks, dlvd lb. .11¼ - —
99%, dms., c.l., dlvd lb. .13½ - —
l.c.l., dlvd. lb. .14½ - —
tanks dlvd lb. .11½ - —
Acetoacetate, dms., c.l., dlvd lb. .55 - —
l.c.l., dlvd lb. .56½ - —
Acrylate, dms., c.l., and truck load, works lb. .45½ - —
less than truckload, works lb. .46 - —
tanks, works lb. .42¾ - —

Ethyl aminobenzoate, USP (see Benzocaine).
- Benzoate, cns., dms lb. .74 - .90
- Bromide, tech., 98%, dms., c.l. lb. .41 - —
- l.c.l. lb. .43 - —
- Butyrate works lb. .80 - 1.02
- Carbamate (see Urethane).
- Chloride tech. dms. c.l., works, lb. .18 - .20
- cyls., c.l., same basis lb. .20 - .22
- tanks, same basis lb. .10 - —
- USP bbls. cyls lb. .22 - .24
- Cinnamate, cns lb. 2.71 - 3.45
- Formate, dms lb. .60 - —
- Gallate, dms., 100 to 2,000-lb. lots lb 3.90 - 4.40
- Iodide, cbys., works lb. 3.30 - —
- Methacrylate, dms., c.l., and less than truckload works lb. .50½ - —
- Nitrite (see Ether nitrous).
- Oenanthate dms lb. 1.00 - 1.50
- Oleate, dms., l.c.l., works lb. No prices.
- Oxalate (see Diethyl oxalate).
- Silicate, dist. (see Tetraethyl orthosilicate)
- 40% available SiO2 dms. works, lb. .54½ - —

Ethylaminonaphthylamine (see Monoethylalphanaphthylamine)
Ethylamine (see Mono, Di- or Tri-)
Ethylanilin (see Monoethylanilin)
- Ethylbenzene, 99%, dms., c.l lb. .14 - .20¼
- l.c.l. lb. .14 - .20¼
- tanks lb. .13 - .18½

Ethylbutylketone, dms., c.l., works, lb. .35½ - —
- l.c.l., works lb. .36 - —
- tanks lb. .34 - —

Ethylcellulose, vis. 7 cps., bgs., 5,000 lb. lots or more, works lb. .72 - —
- smaller lots, works lb. .72 - .80
- vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, works lb. .65 - —
- smaller lots lb. .67 - .75

Ethylene dichloride, dms. c.l., dlvd. lb. .10¼ - —
- l.c.l., same basis lb. .12¼ - —
- tanks, same basis lb. .09 - —
- Ethylene dichloride prices W. of Rockies 1c per lb higher.

Oxide, cyls., c.l., works lb. .26 - —
- l.c.l. works lb. .27 - —
- tanks, dlvd lb. .19 - —
- Trichloride (see Trichloroethane).

Ethylenediamine 85-88%, dms., c.l., dlvd. E., basis 100% lb. .46 - —
- l.c.l., dlvd. E., basis 100% lb. .47 - —
- tanks, dlvd. E., basis 100% lb. .44 - —

Ethyleneglycol, dms., c.l., dlvd. E. lb. .18¾ - —
- l.c.l. same basis lb. .19¾ - —
- tanks, same basis lb. .17 - —

Monobutylether, dms., c.l., dlvd. E lb. .20 - —
- l.c.l., dlvd. E lb. .21 - —
- tanks, dlvd. E lb. .18½ - —

Monoethylether, dms., c.l., dlvd. E. lb. .20 - —
- l.c.l., dlvd. E lb. .21 - —
- tanks, dlvd. E lb. .18½ - —
- Acetate, dms., c.l., dlvd. E lb. .18½ - —
- l.c.l., dlvd. E lb. .19½ - —
- tanks, dlvd. E lb. .16½ - —

Monomethylether, dms., c.l., dlvd. c.l., dlvd. E lb. .18¼ - —
- l.c.l., dlvd. E lb. .21 - —
- tanks, dlvd. E lb. .18½ - —
- Acetate, dms., c.l., dlvd. E lb. .28¾ - —
- l.c.l., dlvd. E lb. .29¼ - —
- tanks dlvd. E lb. .27 - —

Monostearate, dms lb. .30 - .31
Ethylethanolamines, mixed, dms., c.l., frt alld., E Miss lb. .42 - —
- l.c.l. same basis lb. .43 - —
- tanks, same basis lb. .40 - —

Ethylmorphine hydrochloride, USP bots oz. 13.85 - —
Ethylorthotoluidin (see Monoethyl-orthotoluidin)
Ethylvanillin, cns., 25-lb. lots lb 6.75 - 7.30
- smaller lots lb 7.35 - 7.40

Eucalyptol, USP, cns., dms lb. 1.40 - 1.50
Eugenol, USP, bots lb. 2.55 - 3.15
Euphorbia herb, bls lb. .12 - .14

F

Feldspar, enamel, 100 mesh, bgs., works ton 20.00 -22.00
Glass, 20 mesh, bulk, tons, works ton 11.75 -12.50
Pottery, bgs., ton lots, works ton 20.00 -22.00
- bulk, c.l. works ton 18.00 -20.00

Fennel, Argentine, bgs lb. .13 - .14
- Czech, medium, bgs lb. .14 - .14½
- light, bgs lb. .18 - .20
- French, bgs lb. .34 Nom.
- Indian, bgs lb. .14½ - .15

Fenugreek seed, Moroccan, bgs. lb. .07 - —
Ferric-ammonium citrate (see Iron ammonium citrate)
Ferric cacodylate (see Iron cacodylate)
Glycerophosphate (see Iron glycerophosphate)
Hypophosphite (see Iron hypophosphite)
Sulphate (see Iron sulphate ferric)
Ferrous gluconate, NF, dms lb. .68 - .87
Fir, balsam, Canada, cns gal. 34.00 -35.00
Oregon, bbls gal. No prices.
Fishliver oil (see Oil, fishliver)
Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area ton 134.00 -135.00
Fishscrap, menhaden, dried, 60% protein, bags, Balto area ton 129.00 -130.00
Fluorspar, dom., acid grade, bulk, c.l., mine ton 60.00 - —
- ceramic grade, 93-96% CaF_2, grd., bulk, c.l., mine ton 57.50 - —
- 85-92% CaF_2, grad., bulk, c.l., mine ton 47.00 - —

Fluorspar, dom., metallurgical grade, briquets, pellets, 65%, CaF_2, bulk, c.l., works ton 34.00 - —
- lump, 59-65% effective CaF_2, bulk, c.l., mine ton 40.00 - —
- washed gravel, 59-60% effective CaF_2, bulk, c.l., mine ton 40.00 - —
- 60-65% effective CaF_2, bulk, c.l., mine ton 40.00 -41.00
- 65-70% effective CaF_2, bulk, c.l., mine ton 42.00 - —
- 70% or better, effective CaF_2, bulk, c.l., mine ton 43.00 - —

Formaldehyde, NF (inhibited), dms., c.l., E., works lb. .066 - —
- l.c.l., E. works lb. .071 - —
- tanks, E. works lb. 0420 - —
- methanol-free (uninhibited), tanks, works lb. .0395 - —

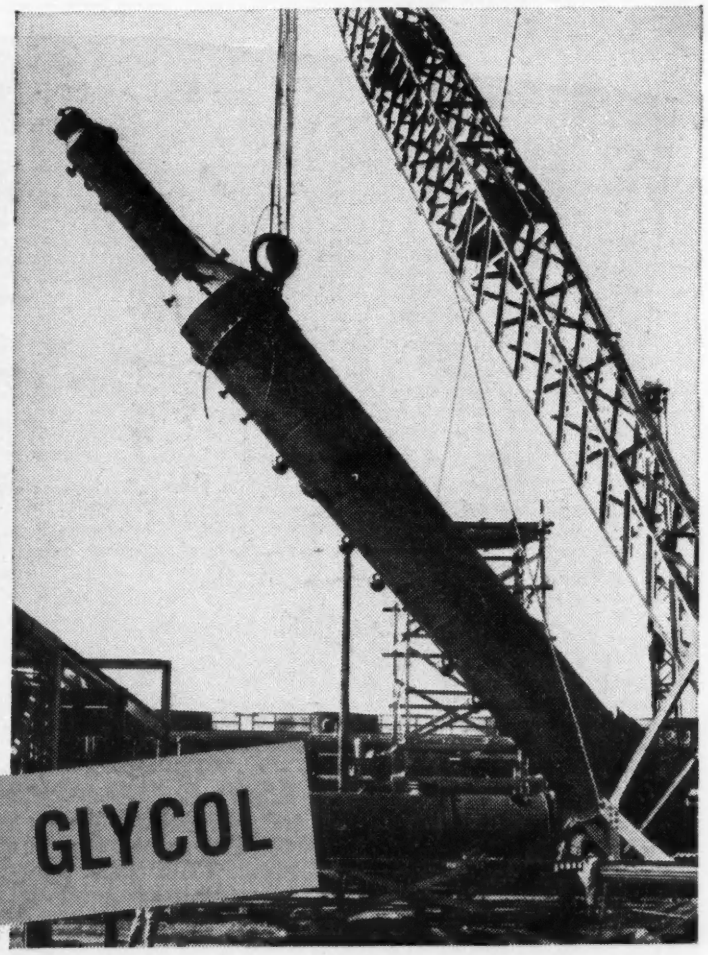
Tankcar and tamwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.

Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .60 - .61
Fuller's earth, dom., powd., bgs., c.l., Fla., mines ton 21.25 - —
- Georgia mines, c.l. ton 17.00 -18.00
- Texas mines, c.l. ton 16.00 - —
- spent, f.o.b. shipt. pt., c.l. ton 4.50 - 5.00
- imported, bgs., c.l. ton 42.00 - —

Furfural, tech., dms., c.l., works lb. .13 - —
- l.c.l. works lb. .15 - —
- tanks, works lb. .115 - —

New facilities boost production of highest quality...

Jefferson DIETHYLENE GLYCOL



New production facilities at Jefferson's Port Neches plant include this giant reactor, shown here in process of installation.

With extensive new facilities recently installed at its Port Neches plant, Jefferson Chemical Company is now producing increased quantities of highest quality diethylene glycol for use in the natural gas, printing ink, tobacco, adhesive, plasticizer, textile and metal casting industries.

Jefferson Diethylene Glycol is produced by *specialists* in essential chemicals from hydrocarbon sources.

It is available for immediate delivery in tank cars and 55 gallon drums, or in samples for your preliminary investigations. (Address inquiries to Department A.)

- Ethylene Oxide
- Ethylene Glycol
- Ethylene Dichloride
- Diethylene Glycol
- Monoethanolamine
- Diethanolamine
- Triethanolamine
- Nonyl Phenol
- Morpholine
- Ethylene Carbonate
- Propylene Carbonate
- Diethylethanolamine
- Hydroxyethyl Morpholine

Jefferson CHEMICAL COMPANY, INC.
260 MADISON AVENUE, NEW YORK 16, N. Y.

Branch Sales Offices: 180 West Washington St., Chicago 2, Illinois; 318 Melrose Building, Houston 2, Texas; Sales Agent: Nelson A. Howard, Jr., 900 Wilshire Boulevard, Los Angeles 17, California. • Warehouse Stores: Tenafly, New Jersey; Chicago, Illinois; Houston, Texas.

Fusel oil, refined, dms., c.l., dlvd lb. .17½- —
l.c.l., dlvd. lb. .18½- —
tanks, dlvd lb. .15 - 15½
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .47½- —
No. 2, bbls., l.c.l. lb. .45½- —
No. 3, bbls., l.c.l. lb. .43½- —
liquid, No 1, bbls., l.c.l. lb. .22½- —
No. 2, bbls., l.c.l. lb. .21½- —
No. 3, bbls., l.c.l. lb. .19 - —
solid, No. 1, bxs., l.c.l. lb. .45 - —

G

G salt, 100% basis, bbls., frt alld lb. .73 - —
Gammapicoline, 98%, dms., c.l., works lb. 2.65 - —
Gasoline, tanks, refy., ex tax, Arkansas, 80 octane gal. .1175- —
N. Y. Harbor, 86 octane gal .1415- .146
Group 3, 84 octane gal. .11375- .11625
Gulf coast, 83 octane gal. .11 - .1175
Penn., western U. S. motor, 86 octane gal. .1415- .1425
natural, group 3, 26-70 octane gal. .055 - —
Gelatin, edible, pure (pork skin), 75 Bloom test, fib. dms., c.l. lb. .52 - —
150 Bloom test, fib. dms., c.l. lb. .63 - —
200 Bloom test, fib. dms., c.l. lb. .69 - —
225 Bloom test, fib. dms., c.l. lb. .72 - —
275 Bloom test, fib. dms., c.l. lb. .79 - —
Gelsemium root, bls. lb. .28 - .29
Gentian root, bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd., bbls., bxs lb. .23 - .24
Geranium, extra, cns., dms lb. 1.40 - 2.10
standard, cns., dms lb. .60 - 1.50
Geranyl acetate, cns lb. 1.30 - 2.10
Ginger, oleoresin, NF, from African root, bots lb. 3.75 - 7.50
from Jamaican root, bbls nom. 5.00 -12.75
Root, African, bls lb. .13 - .13½
Jamaica, No. 1, bgs lb. .19 - .20
No. 2, bgs. lb. .13½- .14
No. 3, bgs. lb. .12½- .13
Rhattoon, bgs lb. .12 - .12½
Nigerian, split, bgs lb. .10 - .10½
Glauber's salt, anhyd see Sodium sulphate
Glue, bone, extracted, 66 jellygrams, bgs., c.l., dlvd lb. .22½- —
86 jellygrams, same basis lb. .23 - —
104 jellygrams, same basis lb. .23½- —
131 jellygrams, same basis lb. .24 - —
164 jellygrams, same basis lb. .24½- —
191 jellygrams, same basis lb. .25 - —
222 jellygrams, same basis lb. .26 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .18½- —
65 jellygrams, same basis lb. .19½- —
86 jellygrams, same basis lb. .20 - —
115 jellygrams, same basis lb. .20½- —
135 jellygrams, same basis lb. .21½- —
164 jellygrams, same basis lb. .22 - —
renderers 110 jellygrams, bgs., c.l., dlvd lb. 20 - —

Bone glue l.c.l. prices 1c. higher.

hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .22 - —
95-121, bgs., c.l., dlvd lb. .22½- —
122-149 bgs., c.l., dlvd lb. .24 - —
150-177 bgs., c.l., dlvd lb. .26 - —
178-206 bgs., c.l., dlvd lb. .28 - —
207-236, bgs., c.l., dlvd lb. .32 - —
237-266, bgs., c.l., dlvd lb. .33½- —
237-266, bgs., c.l., dlvd lb. .33½- —
299-330, bgs., c.l., dlvd lb. .35 - —
331-362, bgs., c.l., dlvd lb. .36 - —
363-394, bgs., c.l., dlvd lb. .37 - —
395-427, bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .40 - —
461-494, bgs., c.l., dlvd lb. .42 - —
495-529, bgs., c.l., dlvd lb. .44 - —

Hide glue l.c.l. prices 1c. higher.

Glycerin, nat. crude, saponification, 88%, to refineries, tanks, dlvd. lb. .23 - —
soaplye, 80%, tanks, dlvd lb. .21 - —
refined, BP, 98%, dms., c.l., dlvd. lb. .34½- —
l.c.l., dlvd lb. .35 - —
tanks, dlvd lb. .34 - —
dynamite, dms., c.l., dlvd lb. .34½- —
l.c.l., dlvd lb. .35 - —
tanks, dlvd lb. .34 - —
high gravity, dms., c.l., dlvd. lb. .34½- —
l.c.l., dlvd lb. .35 - —
tanks, dlvd lb. .34 - —
USP, CP, 95%, dms., c.l., dlvd. lb. .33½- —
l.c.l., dlvd lb. .34 - —
tanks, dlvd lb. .33 - —
yellow, distilled, dms., c.l., dlvd lb. .34 - —
l.c.l., dlvd. lb. .34½- —
synth., dms., c.l., dlvd lb. .34½- —
l.c.l., dlvd lb. .35 - —
tanks, dlvd lb. .34 - —
Glycine (see Acid aminoacetic).
Glyoxal, 40% dms. c.l. works lb. .18½- —
l.c.l. works lb. .19 - —
tanks works lb. 18 - —
Gold chloride, acid-brown, bots oz. 22.50 -23.00
acid-yellow, bots oz. 20.00 -20.50
Golden seal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms. ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
93-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, brown, tanks, dlvd lb. .04⅜- —
house, tanks, dlvd lb. .04⅜- —
white, choice, tanks, dlvd lb. .08½ Nom.
yellow, tanks, dlvd lb. .05⅜- —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works lb. 6.30 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis. lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis. lb. .42 - —
50%, bbls., same basis lb. .46 - —
reduced color, 25%, bbls., same gal. .19 - —

Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromimum oxide, hydrated, bbls., dms., c.l., frt. alld. lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .39¼- —
l.c.l., same basis lb. .39¾- —

Green, dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.80 - —
Paris (see Paris green).
Phthalocyanin toner, bbls., works. lb. 4.40 - —
resinated, bbls lb. 4.00 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
Grindelia robusta herb, bls lb. .44 - —
Guaiacol, cryst., NF, dms., tins lb. 2.10 - 2.15
liquid, NF, dms., cbys lb. 2.30 - 2.40
Carbonate, NF VII, dms lb. 3.40 - 3.45
Gum accroides (see Gum yacca).
Aloe (see A).
Arabic, amber, sorts, bgs lb. .14½- —
powdered, USP, bbls lb. .20 - .23
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, bgs., 23,000-lb. lots or more, works, frt. alld lb. .60 - —
smaller lots same basis lb 62 - —
Copal, Congo, No. 1, bgs lb. .17 - .19
No. 2, bgs lb. .15 - .17
No. 3, bgs lb. .13½- .14½
Manila, C, bgs lb. .32 - .34
CBB, bgs. lb. .22½- .24½
DBB, bgs. lb. .18 - .19
DK, bgs lb. .14 - .16
dust, bgs. lb. .11 - .12½
soft, MA bgs lb. .14½- .16
WS, bgs. lb. .27 - .35
Philippine, pale, chips, bgs lb. .18 - .19
nubs, bgs. lb. .29 - .32
seeds, bgs. lb. .13 - .15
sorts, bgs. lb. .15 - .16
Pontianak, chips, bgs lb. .20 - .22
nubs, bgs. lb. .30 - .32
Gum, dammar, Batavia, A/E, bgs. lb. .26 - .27
dust, bgs lb. .16 - .18
E., bgs lb. .18 - .20
East India, batu, bold, bgs lb. .13½- .15
nubs and chips, bgs lb. .08½- .10
black, bold, bgs lb .14½- .16
unscraped, bgs. lb. .11 - .13
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs lb. .13 - .14
nubs, bgs. lb. .18 - .20
Singapore, No. 1, bgs lb. .38 - .39
No. 2, bgs. lb. .28 .30
No. 3, bgs. lb. .16 .17
dust, bgs lb. .16½- .17
seeds, bgs. lb. .18 .20
Ester, gum rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N.E. States Minneapolis N. C., Ohio St. Louis St. Paul, Va. W. Va lb. .14 - .14½
wood-rosin type, dms., c.l., same basis lb. .14 - —
Guaiac (see Guaiac resin).
Karaya, NF powd. No. 1, bbls lb. .30 .35
No. 2, bbls lb. .24 - .28
No. 3, bbls lb. .19 - .21
Kauri bgs. lb .30 .50
Kino, cs lo 1.50 2.40
Locust bean, powd., bgs lb. .30 .33
Myrrh, cs. lb. .38 - .40
Opium (see O).
Olibanum siftings, cs lb. .15 - .20
tears, cs. lb. .22 - .30
Red (see Gum, yacca).
Rosin (see R).
Sandarac, cks. lb. 2.50 - 3.50
Sterculia (see Gum karaya).

Fusel Oil—Hexalin

Gum, tragacanth, No. 1, cs lb. 2.85 - 2.90
No. 2, cs lb 2.45 2.50
No. 3, cs lb 1.60 1.70
powdered, USP bbls lb 1.25 1.35
Yacca, bgs lo. .06 - .09
Gypsum, plaster of paris, 100-lb. paper bags, trucks, dlvd. N. Y. C ton 20.30 - —
Terra alba, domestic, same basis. ton. 19.00 - —
works, N. Y. C. ton. 16.00 - —
imported, English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton. 60.00 -62.00

H

Hawthorn berries, bgs. lb .28 .32
Heliotropine, cryst., cnr lb 3.10 3.65
Hellebore root dom green, bls lb. .55 .65
Helonias root, bls lb. 1.75 - 2.00
hematine extract, cryst. No. 1, bbls., l.c.l. lb 47 - —
No. 2, bbls., l.c.l. lb 43 - —
No. 3, bbls., l.c.l. lb 41 - —
No. 4, bbls., l.c.l. lb .39 - —
No. 5, bbls., l.c.l. lb .37 - —
paste, No. 1 bbls, l.c.l. lb 20½ —
Henbane leaves, bls lb. .40 - .45
Heptane, industrial, tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾- —
Borger, Tex gal. .14¾- —
Hesperidin methylchalcone, bots. works lb 50.00 —
Hexachlorophene dms lb 2.60 - —
Hexalin (see Cyclohexanol).

PENNSALT CAUSTIC SODA

...an aid in pulp & paper production

...made in Pennsalt's two northwest plants

For western pulp and paper manufacturers, the ideal sources of Caustic Soda are the Pennsalt plants in Tacoma, Wash. and Portland, Oregon. Pennsalt service representatives have long experience in serving the pulp and paper industry, and they can be relied on for sound advice concerning the use of Caustic Soda.

This versatile chemical serves in other fields, too: in atomic energy processing, textile manufacturing, chemical processing, and in soap-making.

Pennsalt supplies Caustic Soda in these forms:

Liquid 50% and 72% strength, in tank cars

Solid, Flake, Crystal } in steel drums

All shipped from Tacoma or Portland.

For further information, contact the nearest Pennsalt district office.

DISTRICT OFFICES AND TELEPHONES

Berkeley 4, Calif.—Ashberry 3-2537 • Los Angeles 11, Calif.—Jefferson 6244 • Portland, Ore.—Atwater 7655

Tacoma 1, Wash.—Market 9101

PENNSYLVANIA SALT MANUFACTURING COMPANY OF WASHINGTON

2901 Taylor Way, Tacoma 1, Washington

Pennsalt Chemicals

Hexamethylenetetramine—Lead Stearate

Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N. Y. C. lb. .232 - —
smaller lots, same basis lb. .242 - —
fib dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500 lb. lots or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexamine (see Hexamethylene tetramine)
Hexane industrial, tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex. gal. .15½- —
Borger, Tex. gal. .15½- —
Hexanol, normal dms., c.l., works lb. .34½ - —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb 2.25 - 7.50
Salicylate dms lb 1.75 - —
Hexyleneglycol, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works lb 71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb.14.00 - —
smaller lots, dlvd. lb.14.50 - —
Histamine diphosphate USP, bots kilo 456.00 —
Histidine hydrochloride, laevo, NF, fib dms., 50-kilo lots, works kilo.80.00 -85.00
1-5 kilo lots, works kilo.90.00 -95.00
Homatropine hydrobromide, USP bots oz. 9.75 - —
Hydrochloride, bots. oz.20.00 -22.00
Methylbromide, USP, bots oz.10.00 -11.00
Houtmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton 6.00 - —
Horehound herb, bls lb .14 .15
Hydrastine, bots oz.29.50 -31.00
Hydrochloride, NF, bots oz.29.50 -31.00
Sulphate bots oz.35.00 -37.00
Hydrastinine 10-grain bots bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Niagara Falls lb. 3.00 - 3.30
Hydrate 100% ret. dms., Niagara Falls lb. 1.75 - 1.95
85%, ret. dms., same basis lb. 1.35 - 1.55
Hydroturamide dms. fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyl., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride, anhyd., cyls., works lb. .27½- .29
tanks, works lb. .21 - —
Peroxide USP, nbls. dlvd lb .03¾ .05
35%, chys., dlvd lb. .21 - —
dms., c.l., dlvd lb. .209 - —
l.c.l., dlvd. lb. .213 - —
tanks, dlvd. lb. .201 - —
Hydroquinone photo grade bbls. dms. lb .98 1.00
tech, dms., c.l., frt. equald lb 77 —
l.c.l. frt equald lb 78 —
Hydroxycitronellal, cns lb 5.35 5.80
Hyoscine salts (see Scopolamine)
Hyoscyamine, bots oz.15.75 -16.00
Hydrobromide, bots oz.16.50 -18.00
Sulphate bots oz.12.00 -13.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liquid No 1, bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —

I

Ichthammol, NF dms lb. .80 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indol, CP bots lb.17.00 -21.00
Inositol, bots., dlvd lb. 5.00 - —
dms., dlvd. lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.30 - —
resublimed, USP, bots., jars lb. 2.55 - —
Iodochlorohydroxyquin, USP, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs lb. 4.90 - 5.00
Ionone, alpha, cns lb. 4.00 - 8.25
Beta, cns lb. 4.30 -11.25
Methyl, std., dms., cns. lb. 3.80 - 4.65
Ipecac root, bgs lb. 6.25 - 6.50
powd., bbls., bxs lb. 6.75 - 7.00
Irish moss, bleached, prime, bls lb. .30 - .35
Iron acetate liquor, 28° bbls., e.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
solut., USP IX, chys lb. .16 - —
djns. lb. .17 - —
Cacodylate, NF, bots lb.13.00 -14.00
Chloride (ferric), anhydr., tech., dms., c.l., works, 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 8.00 - —
indust., cryst., bbls., c.l., works 100 lbs. 4.75 - 5.25
l.c.l., works 100 lbs. 5.25 - 6.25
USP, cryst., dms., works lb. .07½- .09
solut., 42° Be, chys., c.l., works 100 lbs. 7.25 - 8.25
tanks, frt. equald., basis 100% 100 lbs. 3.20 - —
Citrate, gran., dms lb. .86 - —
Gluconate, NF (see Ferrous gluconate, NF).
Glycerophosphiate, NF, powd. lb. 4.75 - 4.85
Iron hypophosphite, NF, dms. lb. 2.80 - —
Iodide bgs. lb. 3.66 - 3.73
Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾- —
Oxalate gran. dms lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran. pearls dms lb. .78 - .81
Resinate, 6.75% Fe, dms., frt. alld. lb. .26¼- —
Stearate, dms., c.l., frt. alld lb. .37 - —
l.c.l., same basis lb. .38 - .42
Sulphate ferric, partially hydrated, bgs., c.l., works ton.31.75 -33.75
l.c.l., works ton.34.75 -40.75
ferrous, tech. (see Copperas)
USP, cryst., bbls., dms lb. .09½- .10
Iron-ammonium citrate, brown, N.F., gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms lb. .25½- .28½
Iron-potassium, oxalate, fine gran., dms lb. .30½- .33½
Iron-sodium oxalate, fine gran., dms lb. .25½- .28½
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .55 - .95
formate, dms. lb. .80 - —
Propionate, dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
solvent grade, dms., c.l. dlvd E. of Rockies lb. .13¼- —
l.c.l., same basis lb. .14¼- —
tanks, same basis lb. .11¼- —
Methacrylate, dms., works lb. .60 - —
Isobutyraldehyde, dms., dlvd lb. .50 - —
Isoeugenol, cns lb. 3.75 - 4.05
Isoniazid, bulk, powder, 25-kilo lots or more kilo.30.00 -32.00
smaller lots kilo.30.00 -32.00
Isonicotinic acid hydrazide (see Isoniazid).
Isopentane, commercial grade, non-ret. dms., f.o.b. Tex. refy. gal. .50 - —
pure lb. .50 - —
tech. lb. .25 - —
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb. .22½- —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., dlvd lb. .12 - —
l.c.l., same basis lb. .13 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether (see Ether, Isopropyl).
Isopropylamine (see Mono-, Di-, or Tri-).
Isopropylphenol, dms., c.l., works lb. .46 - —
l.c.l., works lb. .47 - —
tanks, works lb. .45 - —
Isoquinolin, dms., works lb. .65 - 1.25

J

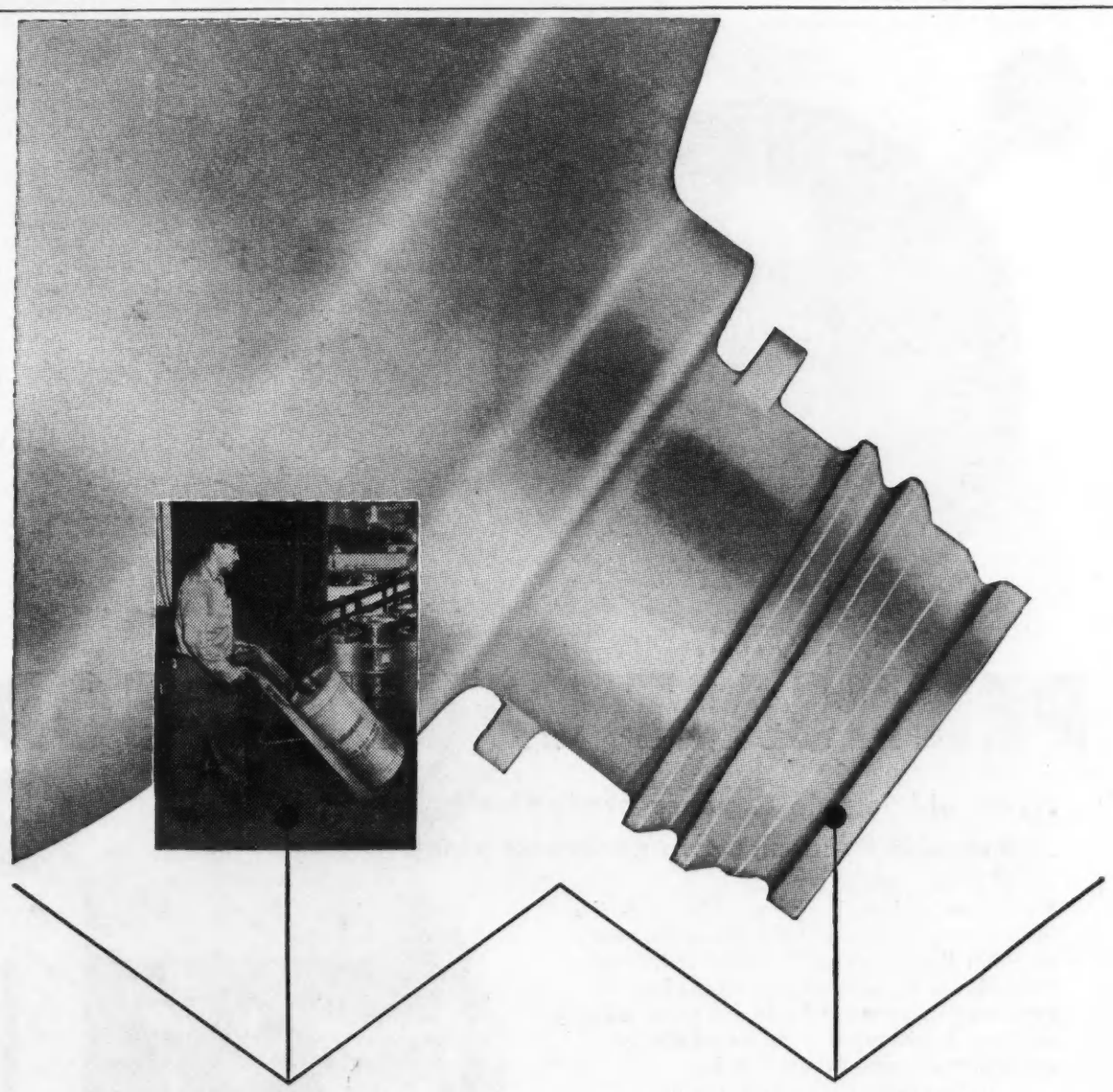
Jalap root, NF, bls lb. .38 - .55
powd., bbls., bxs lb. .49 - .66
Juniper berries, bgs lb. .18 - .22
Tar, NF, dms. lb. .42 - .50

K

Kaolin (see also Clay, China).
NF, powd., fib. dms lb. .08 - .16¼
colloidal, fib. dms lb. .15 - .15½
Kerosene, tanks, refy., Ark., 42-44 specific gravity, w.w. gal. .09375- —
California, 40-43 s.g., w.w. gal. .138 - .148
Gulf ports, 41-43 s.g., w.w. gal. .09 - .0975
N. Y. Harbor, 43-44 s.g., w.w. gal. .105 - .11
Okla.-Tex., 41-43 s.g., w.w. gal. .08875- .10
Penn., Western, 45 s.g., w.w. gal. .1155- .12
Kola nuts, bgs lb. .09 - .10

L

Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .36 - .42
USP, anhydrous, dms., works lb. .35 - —
hydrous, dms., works lb. .34 - —
Lard, cash, trcs., Chicago lb. .14¾ Nom.
Larkspur seed, bgs lb. .20 - .25
Lauryl chloride, dms., c.l., works, frt. equald lb. .74 - —
l.c.l. lb. .75 - —
Methacrylate, normal, dms., less than truckload works lb. 1.00 - —
Lavender flowers, medium, bls lb. .55 - .60
ordinary, bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white, crystals, bbls. gran. bbls. lb. .22 - —
gran. bbls lb. .23 - —
powd., bbls lb. .23 - —
NF cryst., gran., powd lb. .31 - .32
Arsenate, acid powder, dealers, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
l.c.l., frt. alld lb. .28½- —
1-lb. bgs., c.l. lb. .41½- —
l.c.l. lb. .42½- —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld lb. .14¾- —
l.c.l., same basis lb. .15¾- —
Carbonate (see Lead, white).
Chloride dms lb. .45 - —
Iodide, NF, V bars lb. 3.32 - —
Linoleate, fused, 26.5%, dms lb. .32½- —
Metal, pigs, prime, N. Y. lb. .1350- —
St. Louis lb. .1330- —
Metallic paste, dms., 20,000-40,000-lb. lots same basis lb. .31¾- —
10,000-20,000 lb. lots same basis lb. .32¾- —
2,000-10,000 lb. lots same basis lb. .33¼- —
200-2,000 lb. lots, same basis. lb. .33¾- —
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher
Monosilicate, bgs., c.l., works, frt. equald lb. .1450- —
l.c.l., same basis lb. .15 - —
Naphthenate, liquid, 16% Pb, dms., dlvd lb. .17½- —
24% Pb, dms., dlvd lb. .23¾- —
solid, 37% Pb, dms., dlvd lb. .31¼- —
Nitrate, bbls lb. .22¼- —
Oleate, fused, bbls. lb. .29¾- —
Orthosilicate gel, 50% PbO, dms., works lb. .32¾- —
60% PbO, dms. works lb. .31¾ —
Peroxide, powd., tech., bbls lb. .45 - .47
Phthalate, dibasic, dms., works. lb. .41 —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. equald lb. .16 - —
l.c.l., same basis lb. .16½- —
97% Pb_3O_4, bbls., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .16¾- —
98% Pb_3O_4, bbls., c.l., same basis lb. .16½- —
l.c.l., same basis lb. .17 - —
Resinate, precip., dms., dlvd lb. .28½- —
Salicylate, normal, dms., works lb. .46 - —
Stearate, dibasic, tan lots lb. .54 - —
precip., bbls., c.l. lb. .39 - —
l.c.l. lb. .40 - .44



STEP FORWARD . . .
Your Customers Are!

Companies in most major industries have adopted Unbreakable Plaxpak® Carboys

Yes, your customers are using seamless Plaxpak carboys for inter- and intra-plant operations. And the reports are glowing. Age-old breakage problems have been eliminated. Corrosives are handled and poured with new ease, safety and efficiency. Product purity is protected. Carboy replacement costs have dropped practically to zero.

Think what it would mean to your customers to get your product packaged in the money-saving Plaxpak carboy. More sales? Sure. Big savings for you in sharply reduced shipping costs. Get the full story about this ICC-approved carboy and its many advantages to you. Ask to see one of our representatives or write for our quick-reading brochure.

PLAX CORPORATION
672 FARMINGTON AVENUE
WEST HARTFORD, CONN.
In Canada:
Plax Canada, Limited, Toronto

PLAXPAK CARBOYS . . . *the safe, saving way to handle bulk liquids*

Lead sulphate (see Lead, blue, basic sulphate; Lead, white; basic sulphate).
Tallate, liquid, 16% Pb, dms....lb. .16 - —
24% Pb. dms. .....lb. .21½- —
White, basic carbonate, bgs., c.l., ship't point, frt. alld..lb. .16 - —
l.c.l., same basis.....lb. .17 - —
basic silicate, bgs., c.l., ship't point, frt. alld..lb. .15¼- .17¾
l.c.l., same basis.....lb. .16¼- .18¾
basic sulphate, bgs., c.l., ship't point, frt. alld..lb. .14¾- —
l.c.l., same basis.....lb. .15¾- —
Lecithin, edible, tech., bleached, non-ret., dms., c.l., works. lb. .15 - .17
l.c.l., same basis.....lb. .15½- .17½
unbleached, non-ret., dms., c.l., same basis..lb. .13 - .15
l.c.l., same basis.....lb. .14½- .16½
Leucine dextro-laevo, dms., works. lb. 12.25 - 15.00
Licorice extract, mass, cns.....lb. .28 - .40
powd., bbls. .....lb. .34 - .48
Root, whole, bbls.....lb. .08 - .12
gran., bbls. .....lb. .12 - .17
powd., bbls. .....lb. .10 - .15
Lignin extract, tanning grade, bgs., c.l., works lb .05¼- .06½
Lime, agricultural, bulk, works..ton.14.50 - —
Chemical (quicklime) lump, pebble, bulk, Adams, Mass.ton.12.50 - —
Annville, Pa .....ton.11.50 - —
Austin, Texas .....ton. 9.50 - —
Bellefonte, Pa. .....ton.11.50 - —
Buffalo, N Y .....ton.14.00 - —
Cedar Hollow Pa ..ton.11.50 - —
Duluth, Minn. .....ton.12.50 - —
El Paso, Texas .....ton.14.00 - —
Lime, chemical (quicklime), lump, pebble, bulk, Farnams, Mass..ton.14.00 - —
Gibsonburg, Ohio ..ton.12.50 - —
Hannibal, Mo .....ton.10.00 - —
Keystone, Ala .....ton.10.25 - —
Kimballton, Va. .....ton.10.25 - —
Knoxville, Tenn .....ton.10.50 - —
Lee, Mass .....ton 12.50 - —
Lewisburg, Ohio.....ton.10.00 - —
Limedale, Ark ton.10.00
Los Angeles, Cal ...ton.25.10 -26.84
Marble Cliff Ohio ..ton.10.00 - —
Martinsburg, W. Va. ..ton.11.00 - —
Mosher, Mo. .....ton.10.75 - —
Nelson, Ariz .....ton.14.50 -23.65
Quincy, Ill .....ton.10.00 -13.00
Reddick, Fla .....ton.13.50 - —
Scotrock, Ala .....ton.10.25 - —
Springfield, Mo.....ton.12.25 - —
Winooski, Vt .....ton.15.50 - —
Woodville Ohio .....ton.11.50 - —
York, Pa .....ton.15.50 - —
Hydrated, paper bags, Adams, Mass .....ton.15.50 - —
Annville, Pa .....ton.14.50 - —
Austin, Texas .....ton.13.00 - —
Bellefonte, Pa .....ton.14.50 - —
Buffalo, N Y .....ton.16.00 - —
Cedar Hollow Pa....ton.14.50 - —
Chicago, Ill .....ton.15.00 - —
Duluth, Minn .....ton.14.00 - —
El Paso, Texas .....ton.17.50 - —
Engle, W Va .....ton.14.50 - —
Farnams, Mass .....ton.14.00 - —
Gibsonburg, Ohio....ton.16.50 - —
Hannibal, Mo. .....ton.12.00 - —
Keystone, Ala .....ton.13.50 - —
Kimballton, Va .....ton.13.50 - —
Knoxville, Tenn .....ton.13.00 - —
Lee, Mass .....ton.15.50 - —
Lewisburg, Ohio.....ton.14.00 - —
Limedale, Ark .....ton.12.00 - —
Marble Cliff Ohio ..ton.13.50 - —
McNeil, Tex .....ton.13.00 - —
Meneminee, Mich. ....ton.14.00 - —
Mosher, Mo. .....ton.13.00 - —
North Tazewell, Va ton 12.75 - —
Quincy, Ill. .....ton.10.00 -12.00
Reddick, Fla .....ton.16.00 - —
Scotrock, Ala .....ton.13.50 - —
Springfield, Mo .....ton 12.25 - —
Winooski, Vt .....ton 15.50 - —
Woodville Ohio .....ton.14.50 - —
York, Pa .....ton.14.50 - —
Spray, paper bgs., Adams, Mass. .....ton 17.00 - —
Annville, Pa .....ton.17.00 - —
Austin, Texas .....ton.13.00 - —
Bellefonte, Pa.....ton.17.50 - —
Carey, Ohio .....ton.11.00 - —
Duluth, Minn .....ton.15.00 - —
Engle, W. Va. .....ton.14.50 - —
Farnams, Mass .....ton.14.00 - —
Gibsonburg, Ohio ...ton.16.50 - —
Keystone, Ala .....ton.13.50 - —
Kimballton, Va .....ton.13.50 - —
Lee, Mass .....ton.17.00 - —
Lewisburg, Ohio .....ton.16.00 - —
Marble Cliff Ohio ...ton.16.00 - —
McNeil, Tex.....ton.16.00 - —
Meneminee, Mich. ....ton.14.00 - —
Mosher, Mo. .....ton.13.00 - —
North Tazewell, Va ton 12.75 - —
Reddick, Fla .....ton.16.00 - —
Rockland, Me. .....ton.10.00 - —
Springfield, Mo .....ton.12.25 - —
Scotrock, Ala. .....ton.13.50 - —
Winooski, Vt .....ton.17.00 - —
Woodville Ohio .....ton.16.50 - —
York, Pa .....ton.15.50 - —
Lime salts (see Calcium)
Lime-ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite)
Limestone, grd. bgs. works ton. 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb. 5.95 - 6.70
ex lignaloe wood oil, dms... lb. 5.30 - 7.25
Linalyl acetate ex bois de rose, 90-92%, dms..lb. 5.35 - 6.25
96-98%, dms. .....lb. 6.75 - 7.15
ex petitgrain, bots.....lb. 3.90 - 4.25
Lindane, 25% formulation, dealers, cns., works lb 2.20 - —
dms., works .....lb. 2.10 - —
99%, tech., dealers, dms., works. lb. 2.75 - 3.35
Linden flowers with leaves, bls lb. .34 - .35
without leaves, bls lb. .40 - .41
Linseed meal, expeller, 32-34% bulk, Midwest, mills..ton.66.00 - —
extracted, 36%, same basis..ton.60.00 - —
Litharge, com'l, powd., bbls., c.l., works, frt. equald lb. .15½- —
l.c.l., same basis.....lb. .16 - —
Lithium benzoate, dms lb 1.65 - 1.67
Bromide, NF, bbls., works, frt. equald lb. 2.10 - 2.75
Carbonate, tech., dms ...lb. .90 - 1.10
Chloride, cryst., dms .....lb. 1.22 - 1.28
Citrate, NF, bbls., dms., kgs ..lb. 1.60 - 1.64
Fluoride, bbls.....lb. 2.05 - —
Hydride, powd., dms., works lb.12.00 -14.00
Hydroxide, mononydrate, dms..lb. 1.10 - 1.25
Salicylate, dms lb. 1.60 - 1.70
Lithopone, ordinary, bgs., c.l., dlvd lb. .07½- —
l.c.l., dlvd. .....lb. .08¼- .08½
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l., dlvd .....lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb higher
Lobelia herb, bls .....lb. .45 - —
Lobeline sulphate, bots., works..oz.29.50 -30.00

Logwood extract, crystals, No. 1, bbls., l.c.l lb. .41 - —
No. 2, bbls., l.c.l .....lb. .39 - —
liquid, No. 1, bbls., l.c.l.....lb. .20 - —
No. 2, bbls., l.c.l.....lb. .19 - —
No. 3, bbls., l.c.l.....lb. .16½- —
solid, No. 1.....lb. .35 - —
Lycopodium, cs. .....lb. 1.50 - 1.75
Lysine hydrochloride, dextro-laevo, bots. kilo 145.00 -149.00

M

Mace, Siauw, No. 1, bls.....lb. 1.02 - —
West Indian, No. 1, bls.....lb. No Stocks
broken, cs.....lb. No Stocks
Magnesia, calcined, tech., ctns. works lb. .32 - .34½
synth., rubber grade, light bgs., works..lb. .23 - .25
extra light, works.....lb. .31 - —
USP, light, ctns.....lb. .34 - .36
heavy, bbls. .....lb. .36 - .38
Magnesite, chemical grade, calcined powd., bgs., c.l., works, frt. equald ton.82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash ton.38.00 - —
Magnesium bromide, jars ...lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .09½- —
l.c.l., frt. alld .....lb. .10½- —
bb's., c.l., frt. equald.....lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —
kgs., c.l., frt, equald lb. .12 - —
USP, bgs., c.l., frt. equald..lb. .11¼- —
l.c.l., frt. alld.....lb. .13 - —
l.c.l., frt. alld.....lb. .12¼- —
bbls., c.l., frt. equald.....lb. .11¾- —
l.c.l., frt. alld .....lb. .12¾- —
Magnesium carbonate, USP, kgs., c.l., frt. equald..lb. .13 - —
l.c.l., frt. alld .....lb. .14 - —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Gloucestershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.
Chloride, anhyd., lump 95-96%, drums, c.l., works, frt. equald..lb. .12¾- —
l.c.l., same basis ....lb. .14 - .15
powd., bgs., c.l., works....ton.50.00 - —
l.c.l., works.....ton.55.00 -105.00
hydrous, flake, bgs., c.l., works, ton.50.00 - —
Gluconate, dms., cns.....lb. 1.30 - 1.37
l.c.l., bgs .....ton.55.00 -105.00
Glycerophosphate, dms., works lb. 5.40 - 5.50
Hydroxide, NF, medicinals, bbls., dms., kgs lb. .26½- .30
Hypophosphite, dms lb 1.60 - —
Laurate, bbls lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .27 - —
sticks, cs., works, frt. alld. on carlots lb. .45 - —
Oleate, fused, bbls .....lb. .31 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works..lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls. lb. .75 - —
Silicate (see Talc)
Silicofluoride, bbls., works ....lb. .09 - .10
Sulphate (see Epsom salt)
Stearate, ctns., c.l., frt. alld....lb. .38 - —
l.c.l., same basis.....lb. .39 - .43
Trisilicate, USP, dms., 5,000-lb. lots..lb. .38 - —
1,000-lb. lots .....lb. .40 - —
100-lb. lots .....lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Lead Sulphate—Manganese Tallate

Maleic anhydride, dms., c.l., dlvd E..lb. .27 - —
l.c.l., dlvd. E.....lb. .28 - —
Prices on maleic anhydride W of Rockies, 1½c. higher
Mandrake root, bls.....lb. .32 - .34
Manganese acetate, bbls., dlvd..lb. .35 - —
Arsenate, bgs lb .16 - —
Borate, tech., bbls .....lb. .24 - —
Carbonate, bbls., works .....lb .21 - —
Chloride, anhyd, dms, works lb .20 - .22
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works. ton.88.00 - —
paper-lined burlap bgs., works ton.91.50 - —
dms., works .....ton.94.00 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.
Gluconate, dms. .....lb. 1.79 - 1.93
Glycerophosphate, NF, fib. dms lb. 4.70 - 4.80
Hydrate, bbls, dlvd .....lb. .33¼ —
Hypophosphite, NF, dms .....lb 2.00 —
Linoleate, liquid 4.35% Mn., dms. lb. .30½ —
solid precip, 8.2% Mn., bbls lb .33¼ —
Metal, cs., dlvd, East.....lb. .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld..lb. .27 - —
Oleate, precip., bbls .....lb. .33½- —
Resinate, fused, 3½% Mn., dms.lb. 21¾- —
precip., dms.....lb. 24½- —
Stearate, ctns., c.l.....lb. .33 —
l.c.l. .....lb. .39 - .40
Sulphate, fertilizer grade, 65% bgs., c.l., dlvd, S. E..ton.80.50 - —
l.c.l., dlvd, S. E.....ton.87.50 - —
Tallate, 6%, dms. .....lb. .24¼ - —

Conqueror of the Cations... the Versenes*

THE VERSENES*
"Versene" is the registered trade mark of certain synthetically prepared polyamino acids and their salts. The Versenes form soluble non-ionic chelates with polyvalent metallic ions and completely change their properties so that they can no longer react with other materials and be precipitated from solution by common precipitating agents.

THERE ARE NINE

VERSENE REGULAR (the original Versene) inactivates all metallic ions but is not particularly effective for complexing iron in alkaline solutions (liquid or powder).

VERSENE Fe_3 SPECIFIC is the most powerful complexing agent known for *iron* in the normal pH range. It also chelates copper, nickel, cobalt and zinc (47% solution).

VERSENE Fe_3 is a combination of VERSENE and VERSENE Fe_3 SPECIFIC. It complexes both iron and other metallic ions. (Powder or liquid)

VERSENE-T complexes ferric and divalent metal ions including hard water salts in *any* caustic solution. (55.5% solution)

VERSENE-9. This is the tri-sodium salt of EDTA. It has a pH of 9.3 in solution at 1% concentration. 1 gram complexes a minimum of 242 mgms. of $CaCO_3$. Its general chemical reaction is identical to Versene Regular.

VERSENE IRON CHELATE is the di-sodium ferrous complex of EDTA absorbed into inert vermiculite. Used in Agriculture for citrus and other green growth to cure iron deficiency in acid soils.

DI-SODIUM VERSENATE DI-HYDRATE (dry powder) an Analytical Reagent grade of Versene Regular for research and analytical purposes.

(A) VERSENATE INDICATOR (alcohol solution). Color indicator for Versenate method of water analysis.

CALCIUM DI-SODIUM VERSENATE (25% solution). Chemically Pure grade material for use as stabilizers in drugs, vitamins, pharmaceuticals.

LEAD DI-SODIUM VERSENATE (34% solution). Preformed complex for use in vinyl plastics.

The Versenes give you mole-for-mole control over cations in solution. They are made only by the Bersworth Chemical Company under processes originated, developed and patented by F. C. Bersworth. Quality-control over manufacture is so high that uniform complexing power is guaranteed.

VERSENES* — MADE FOR YOU
Gladly will we share with you our quarter-century of experience in pioneering the polyamines. Samples for experiment will be provided on request and without obligation. Ask for Technical Bulletin #2. Chemical Counsel available. Write Dept. F. Send for prices.

*TRADE MARK REGISTERED.

VERSENE* WATER TEST KIT. Tells total hardness in 2 minutes. Accurate to 1 gr. per gal. Versenate method. Complete with instructions $5.00 postpaid.

"Chemistry's most precise chemicals"

BERSWORTH CHEMICAL CO.
FRAMINGHAM, MASSACHUSETTS

WAREHOUSE STOCKS

Chas. S. Tanner Co.
Liberty Life Bldg.
Charlotte, N. C.

Kraft Chemical Co., Inc.
917 West 18th Street
Chicago 8, Illinois

Siegel Chemical Co., Inc.
One Hanson Place
Brooklyn 17, New York

George Mann & Co., Inc.
251 Fox Point Boulevard
Providence, R. I.

Wasatch Chemical Co.
2225 So. Fifth East, Salt Lake City, Utah

Barada & Page, Inc.
Houston, Dallas, Corpus Christi, New Orleans, St. Louis, Wichita, Oklahoma City, Tulsa, Kansas City, Mo.

Braun-Knecht-Heimann Co.
San Francisco, Calif.
Van Waters & Rogers, Inc.
Seattle, Wash., & Portland, Ore.
Braun Corporation
Los Angeles, Calif.

Mangrove Bark—Monoethylorthotoluidin

Mangrove bark, E. African, 38% tannin, c.l., ex dock ton 77.00 - 78.00
So. American 30% tannin, c.l. ex dock ton 57.50 - 59.00
Mannitol, com'l dms. works lb. .40 - .43
reagent, 50-lb. dms. works lb. .85 - —
Melamine bgs., ton lots, works lb. .33 - —
500 to 2,000 lb. lots, works lb. .33½ - —
smaller lots, works lb. .38½ - —
Menadione USP bots gram .06 - .06½
Menthol, natural, USP, Brazilian, cs. lb. 5.50 - 5.65
Japanese, cs lb. 7.40 - 7.50
synthetic, USP, racemic, cns lb. 4.95 - —
Menthyl salicylate tins lb 4.00 - 4.25
Mercaptobenzothiazole: bgs., fib. dms. ton lots works, frt. alld lb. .38 - —
less ton lots, same basis lb. .40 - —
Mercaptobenzothiazyl disulphide, bgs. fib dms. ton lots, works frt alld lb. .48 - —
less ton lots, same basis lb. .50 - —
Mercury ammoniated (see White precipitated).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel)
Cyanide NF VIII powd fib dms lb 5.29 - —
Iodide, red, NF, fib dms lb 6.47 - —
yellow NF, fib dms lb 6.72 - —
Meal (see Quicksilver)
Oxide, red NF (see Red precipitate), tech (see Red mercury oxide).
yellow (tech (see Yellow, mercury oxide)
USP fib dms lb 4.64 - —
Mesityl oxide, dms., c.l., dlvd lb. .1350 - —
l.c.l., dlvd. lb. .1450 - —
tanks, dlvd. lb. .1150 - —
Metaldehyde, dms., works lb .95 - 1.25

Meta-aminophenol, distilled, dms., ton lots lb 2.03 - —
less than ton lots lb 2.50 - —
Metachloroanilin, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
Metacresol, 98% dms., c.l., works lb. .73½ - —
l.c.l. works lb. .74½ - —
Metanitroanilin dms. frt. alld lb. 1.05 - —
Metanitroparatoluidin, bbls lb. 1.59 - —
Metaphenylenediamine kgs. frt. alld. lb. .90 - —
Metatoluidine bbls., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tankcars, same basis lb. .78 - —
Metatolylenediamine, crystals, fib. dms., frt. alld lb. .94 - —
powder, fib. dms., same basis lb. 1.00 - —
Methanol, natural denaturing grade, dms. c.l., frt. alld gal. .78 - —
l.c.l., frt. alld gal. .79 - —
tanks, frt. alld gal. .70 - —

Prices on natural methanol w. of Miss. 3c. higher

synthetic, Zone 1, dms., dlvd gal. .45 - .45½
l.c.l., dlvd. gal. .52 - —
tanks dlvd gal. .32 - .33½
Zone 2, dms., c.l., dlvd gal. .49½ - —
l.c.l., dlvd within established whse delivery zone gal. .56½ - —
tanks, dlvd. gal. .35½ - —

Synthetic methanol zones are: Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib. dms., frt. alld 50-lb or more lb. 4.55 - —
feed grade, 98%, fib., dms., same basis lb. 3.00 - —
97%, fib. dms., same basis lb. 2.97 - —
Methoxychlor, 50% wettable powder, dealers, dms. cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1 lb. .19½ - —
l.c.l., same basis lb. .20 - —
hydrogenated, zone 1, non-ret., dms., c.l., dlvd lb. .20 - —
l.c.l., same basis lb. .20½ - —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, natural, dms., c.l., E. of Miss., frt. alld. gal. .57 - —
l.c.l., same basis gal. .68 - —
tanks, same basis gal. .45 - —

Natural methyl acetone prices W. of Miss. 3½c. per gal. higher.

synthetic, dms., c.l., dlvd E gal. .66½ - —
l.c.l., dlvd E gal. .72¼ - —
tanks, dlvd. E gal. .54½ - —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory is all States West of those four.

Acrylate, dms., c.l., and truckload works lb. .45½ - —
less than truckload, works lb. .46 - —
tanks, works lb. .42¾ - —
Alcohol (see Methanol).
Anthranilate, cns. lb. 2.35 - 2.65

Methyl benzoate, cns., dms. lb. .53 - .65
Bromide, jobbers, cyls., various sizes, works lb. .47 - .61
Chloride, indust., cyl., works lb. .13 - —
tanks, multi-unit works lb. .14 - —
single-unit, works lb. .11½ - —
refrigerator mfrs., cyls., dlvd lb. .40 - .42
other consumers or service men, cyls., dlvd lb. .57 - —
Cinnamate, cns lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .35½ - —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Formate, refd., dms. lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .68 - —
tanks, works lb. .07 - —
Lactate, dms., l.c.l., works lb. .35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J. lb. .36½ - —
smaller lots, same basis lb. .37 - —
tanks, same basis lb. .35 - —
Parahydroxybenzoate, USP, bots lb. 2.10 - 2.20
fib. dms. lb. 1.90 - 2.00
Rosaniline chloride, NF, fib. dms. lb. 5.44 - —
Salicylate, USP, dms., 500 lbs. lb. .53 - —
cns., 50 lbs. lb. .58 - —
Testosterone, USP, 100-gm. lots. gm. .79 - —
Methylamyl acetate, dms. c.l., dlvd. E lb. .15 - —
l.c.l., dlvd. E lb. .16 - —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb bgs., c.l., works lb. .78 - —
2,000-lb. lots and more, same basis lb. .80 - —
smaller lots, frt. alld. on 100 lbs. lb. .85 - .97
Methylcellulose, standard vis. (15-400 cps.), 50-lb. bgs., c.l., alld lb. .66 - —
2,000-lb. lots and more, same basis lb. .68 - —
smaller lots, frt. alld. on 100 lbs. lb. .72 - .85
Methylene blue, kegs, 100-lb. lots, frt. adjusted lb 3.25 - 3.60
smaller lots, same basis lb. 3.40 - 3.60
Chloride, industrial, dms., c.l., dlvd. E lb. .13¼ - —
Methylethylketone, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd lb. .11 - —
Methylethylpyridin, dms., c.l., works. lb. 47½ - —
l.c.l. works lb 48 - —
tanks, works lb. .46 - —
Methylheptincarbonate, bots lb. 30.00 - 42.00
Methylionone, A, cns lb 6.55 - 8.80
D, cns lb 7.50 - 9.55
prime, cns lb 4.55 - 6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl)
Ketone, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb .13 - —
Methylnaphthyl, ketone, cans lb. 3.60 - 3.95
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone, dms., 250-lb. lots, dlvd. lb. 1.70 - —
smaller lots, dlvd lb. 2.00 - —
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .04¼ - —
roofing, 20 to 80 mesh, works lb. .03 - .04
wet-ground biotite, bgs., c.l., works, frt. alld., E lb. .06¼ - —
l.c.l., ex whse. or frt. alld. E lb. .07 - —
paint or lacq., bgs., c.l., works, frt. alld lb. .07¾ - —
l.c.l., ex whse. or frt. alld. E lb. .08½ - —
rubber, bgs., c.l., works, frt. alld. E lb. .07½ - —
l.c.l., ex whse. or frt. alld. E lb. .08½ - —
wallpaper, bgs., c.l., works, frt. Alld., E lb. .07¾ - —
l.c.l., ex whse. or frt. alld. E lb. .08¼ - —
white, extra fine, bgs., c.l., works, frt. alld. E lb. .07¾ - —
l.c.l., ex whse or frt. alld. E lb. .08½ - —

Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, 1c. higher.

Milk powder, skimmed, roller, bbls., c.l. lb. .13½ - .16.1
spray, bbls., c.l. lb. .16 - .17.1
whole, roller, bbls., c.l. lb. No prices.
spray, bbls., c.l. lb. .34½ - .39¼
Sugar, crude, bgs., c.l., works. lb. .18 - —
edible, bgs., 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾ - —
200-1,800-lb. lots, works lb. .25¼ - —

Edible milk sugar in fib. dms., 1c. higher.

USP, fib. dms., 30,000-lb. lots, lots, works lb. .29 - —
2,000-lb. lots, works lb. .29¾ - —
200-1,800-lb. lots, works lb. .30¼ - —

USP milk sugar in bgs. 1c. lower

Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .09½ - .10
New York gal. .12 - —
Molybdenum metal, 99% Mo, powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.40 - —
technical, kgs., works, basis Mo. content lb. 1.15 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Monochlorobenzene dms., c.l., frt. alld. or dlvd. E lb. .11½ - —
l.c.l., same basis lb. .12½ - —
tanks, same basis lb. .10 - —

Monochlorobenzene prices in the West, 1¾c higher.

Monoethanolamine dms., c.l., dlvd. E. lb. .29¾ - —
l.c.l., same basis lb. .30¾ - —
tanks, same oasis lb. .28 - —
Monoethylalphanaphthylamine, dms., works lb. 1.02 - —
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E. lb. .32 - .33
l.c.l., dlvd. E lb. .33 - .34
tanks, dlvd. E lb. .30¼ - .31
Monoethylanilin, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld lb. .52 - —
tanks, frt. alld lb. .50 - —
Monoethylorthotoluidin, bbls lb. .88 - —

for surfaces that need repeated cleanings

Furious scrubbing—that's the treatment this grimy surface will get. Mother will scour his face until it shines again. And she'll do the same to the titania porcelain enameled surfaces in the kitchen.

TITANOX-TG non-pigmentary titanium dioxide is specially processed for these enamels. The controlled chemical and physical properties of TITANOX-TG speed production and lower costs. For the often desired delicate blue-white tints, TITANOX-TG-400 is constant and uniform in bluing effect.

Titanium Pigment Corporation,
111 Broadway, New York 6, N. Y.; Atlanta;
Boston 6; Chicago 3; Cleveland 15;
Los Angeles 22; Philadelphia 3; Pittsburgh 12;
Portland 9, Ore.; San Francisco 7.
In Canada: Canadian Titanium Pigments Limited, Montreal 2; Toronto 1.

® TITANOX
brightest name in the finish
TITANIUM PIGMENT CORPORATION
Subsidiary of NATIONAL LEAD COMPANY

Monoisopropylamine, dms., c.l., divd.	lb.	.30½	—
l.c.l., same basis	lb.	.31½	—
tanks, same basis	lb.	.28½	—
Monomethylamine, 25%-40%, dms., c.l., frt. equald., basis 100%.	lb.	.35	—
l.c.l., same basis	lb.	.37½	.36
tanks, same basis	lb.	.31	—
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).			
Glutamate (see Sodium glutamate, monobasic			
Phosphate (see Sodium phosphate monobasic)			
Mono-tertiary butylmetacresol dms., c.l., works	lb.	.49	—
l.c.l., works	lb.	.50	—
tanks, works	lb.	.48	—
Morphine, cns	oz.	12.40	12.60
Acetate, anhyd cns	oz.	9.95	10.00
Hydrobromide cns	oz.	9.90	9.95
Hydrochloride, NF cns	oz.	9.90	9.95
Sulphate USP cns	oz.	9.90	10.05
Morpholine dms., c.l., divd. E	lb.	.54¾	—
l.c.l. divd E	lb.	.55¾	—
tanks, divd. E	lb.	.52¾	—
Musk, natural Tonquin grains, bots.	oz.	No stocks.	
synthetic, ambrette, 100-lb. lots, fib. dms	lb.	5.15	—
25-lb. lots, cns	lb.	5.20	—
5-lb. lots, cns	lb.	5.30	—
ketone, 100-lb lots, fib. dms.	lb	5.30	—
25-lb lots cns	lb	5.35	—
5-lb. lots, cns	lb.	5.45	—
xylol, 100-lb. lots, fib. dms	lb.	1.40	—
25-lb. lots, cns	lb.	1.45	—
5-lb. lots, cns	lb.	1.50	—
Mustard seed, Danish, yellow, bgs.	lb.	.11	.11½
Dutch yellow, bgs	lb.	.10½	.11
English, yellow, bgs	lb.	.11	.12
Myrobalans, J-1, assorted, bgs., ex dock	ton.	48.00	Nom.
crushed, bgs., ex dock	ton.	61.50	—
ordinary, bgs., ex dock	ton.	44.00	—
extract, Indian, solid 53% tannin, ex dock, plus duty	lb.	.07¼	—

N

Naphtha, painters (see Petroleum naphtha V M & P.)			
Solvent (see S)			
Naphthalene, crude, dom., 74° tanks, frt equald	lb.	.0625	—
78° dms. c.l., same basis	lb.	.0765	—
l.c.l. same basis	lb.	.0790	—
tanks, same basis	lb.	.0675	—
imported, 78°, large lots	lb.	.03¼	.03½
refined, dom., industrial, bbls., c.l., frt. equald	lb.	.11¾	—
bgs., c.l., same basis	lb.	.11¼	—
tanks, same basis	lb.	.10¾	—
balls, flakes wholesalers, jobbers, bbls., c.l., same basis	lb.	.14½	—
cs. 50 lbs., c.l. same basis	lb.	.14¾	—
1-lb. pkgs. c.l., same basis	lb.	.17	—
Neocinchophen, USP, dms., frt. adjusted	lb.	7.00	8.00
Neomycin Sb. dms., 100-kilo lots, basis, activity	gm.	.60	—
1-kilo lots, basis, activity	gm.	1.20	—
Nepheline syenite glass 24 mesh bulk, works	ton.	14.25	—
pottery, 200 mesh bulk, works, N Y	ton	18.25	—
Nepheline syenite in bgs., $3 per ton higher than bulk.			
Nerolin, cns	lb.	2.15	2.65
Niacin (see Acid nicotinic)			
Niacinamide (see Nicotinamide).			
Nickel acetate bbls., divd	lb.	.75	.88½
Carbonate, bbls. divd	lb.	.71	.78
Chloride, bbls. divd	lb.	.37	.45
Formate, bbls., ton lots, frt alld.	lb.	.64	.65
Metal, electro cathodes, cs., works	lb.	.60	—
Nitrate, bbls., works	lb.	.36	.37
Oxide, black, bbls.	lb.	.69	—
Sulphate, bgs., c.l., divd	lb.	.29	—
l.c.l., divd	lb.	.29½	.37
Nicotinamide, USP, dms., frt. adjusted	kilo.	12.00	12.30
Hydrochloride, dms., frt. adjusted	kilo.	11.50	11.80
Nicotine sulphate, 40%, dealers, 50-lb. dms., frt. alld	lb.	1.11	—
10-lb. tins, 6 to a case, frt. alld., on 200 lbs	lb.	1.20	—
manufacturers, 500-lb. dms., frt. alld	lb.	.925	—
Niger seed, bgs.	lb.	.11½	.12
Nikethamide, cbys	lb.	7.50	8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. alld	lb.	.12	—
l.c.l., frt. alld	lb.	.13	—
tanks, frt. alld	lb.	.11	—
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls. c.l., works	lb.	.33	—
l.c.l., same basis	lb.	.34	.36
18-25 cps. bbls. c.l.	lb.	.35	—
l.c.l. same basis	lb.	.36	.38
250-400, 600-1,000 secs., bbls., same basis	lb.	.42	—
l.c.l. same basis	lb.	.43	.45
spirit-soluble, 30-35 cps., ¼, ½, sec. bbls., same basis	lb.	.45	—
l.c.l. same basis	lb.	.46	.48
5-6, 40-60 secs. bbls., c.l., same basis	lb.	.44	—
l.c.l. same basis	lb.	.45	.47
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.			
Nitroethane, dms. divd E. of Rockies	lb.	.25	—
Nitrogen solution, tanks, works, 37-40.8% N, basis 100%	ton.	128.00	—
Nitrogenous process tankage bulk, works	unit-ton.	3.50	3.75
Sewage sludge, bulk, works	unit-ton.	3.75	.50
Nitromethane, dms., l.c.l., divd E. of Rockies	lb.	.25	—
Nitropropane 1, dms., divd. E. of Rockies	lb.	.23¼	—
2, dms. divd E. of Rockies	lb.	.25	—
Nonylphenol, dms., c.l., works	lb.	.33¼	—
l.c.l., works	lb.	.33¾	—
tanks, works	lb.	.32¼	—
Nutgalls, Aleppo, bgs	lb.	.38	—
Chinese, bgs.	lb.	.45	Nom.
Nutmeg, East Indian, whole, cs.	lb.	.34	.35
shrivels, bgs.	lb.	.33	.34
West Indian, bgs.	lb.	.25½	.26
Nux vomica, bls	lb.	.10	.12
powdered, bbls., bxs	lb.	.15	.17

O

Octane, industrial, tanks, Bayonne, N. J.	gal.	.19	—
Baytown, Tex.	gal.	.15¾	—
Borger, Tex.	gal.	.15¾	—
Octanol, normal, tech., dms., c.l., divd	lb.	.35	—
l.c.l., divd	lb.	.37	—
tanks, divd	lb.	.32½	—
Octyl methacrylate, normal, dms., less than truckloads, works.	lb.	.83	—
Octylphenol, dms., c.l., works	lb.	.26¾	—
l.c.l., works	lb.	.27¼	—
tanks, works	lb	.25¾	—
(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)			
Oil, abies siberica, cns	lb.	2.05	3.00
Almond, artificial, bitter (see Benzaldehyde)			
natural, bitter, F.P.A., bots.	lb.	3.00	3.40
NF, bots.	lb.	3.25	3.75
sweet, USP, dms., cns	lb.	.49	.90
Allspice (see Oil, pimenta).			
Amyris, dms.	lb.	1.40	1.90
Angelica root, bots.	lb.	70.00	-120.00
seed, bots	lb	55.00	-95.00
Anilin (see A)			
Anise, USP, dms	lb.	2.75	3.00
Apricot, kernel, USP, dms	lb.	.37	.46
Avocado, cns	lb.	3.25	—
Babassu, crude, tanks	lb.	No stocks.	
Bay, NF, Puerto Rican, 50-55%, cns	lb.	1.45	1.90
55-60%, cns	lb.	1.65	2.10
West Indian, 50-55%, cns., dms.	lb.	1.45	2.25
Bergamot, artif., cns	lb	2.90	5.00
natural, NF, Italian, cns	lb.	10.50	-13.00
Birchtar, crude, cns	lb.	1.76	2.00
rectified, NF cns	lb	2.50	—
Bois de rose, Brazil dms.	lb.	3.95	4.25
Mexican (see Oil, lignaloe wood).			
Bone, dms. works	lb	.65	.70
Oil, cajeput, redist., USP, cns.	lb.	2.30	3.00
tech., cns	lb.	1.75	2.75
Calamus, bots	lb.	19.00	-20.00
Camphor, sassafrassy, dms.	lb.	.20	.40
white, dms	lb.	.19	.45
Cananga, native, cns	lb.	8.85	-10.75
rectified, cns.	lb.	12.50	-13.75
Capsicum (see Capsicum oleoresin).			
Caraway, NF, cns	lb.	2.60	3.30
Cardamom, NF, bots	lb.	29.00	-37.50
Cassia, USP (see Oil, cinnamon, USP).			
Castor, blown, dms., c.l.	lb.	.2200	—
l.c.l.	lb.	.2350	—
dehydrated, bodied, dms., c.l.,	lb.	.2460	—
l.c.l.	lb.	.2510	—
tanks	lb.	.2360	—
unbodied, dms., c.l.	lb.	.2310	—
l.c.l.	lb.	.2360	—
tanks	lb.	.2210	—
hydrogenated, bgs.	lb.	.2800	.2990
No. 1, Brazilian, tanks	lb.	.16½	—
USP, dms., c.l.	lb.	.2000	—
l.c.l.	lb.	.2050	—
tanks	lb.	.1900	—
refined and deodorized, dms., c.l.	lb.	.2150	—
l.c.l.	lb.	.2200	—
tanks	lb.	.2050	—
No. 3, tech., dms., c.l.	lb.	.1975	—
l.c.l.	lb.	.2025	—
tanks	lb.	.1875	—
sulphonated 50%, dms., l.c.l.	lb.	.14	.14½
75%, dms., l.c.l.	lb.	.18	.18½
Cedarleaf, cns., dms.	lb.	2.00	3.00
Cedarwood, cns., dms.	lb.	.45	.75
Celery seed, bots	lb.	15.50	-21.00
Oil, chamomile, blue, Hungarian, bots.	lb.	175.00	-280.00
Chaulmoogra, NF, cns., dms.	lb.	.65	.70
Chinawood (see Oil, tung).			
Cinnamon bark, bots.	lb.	18.50	-60.00
leaf, cns	lb	1.25	3.25
USP, cns., dms., (Cassia)	lb.	No stocks.	
Citronella, Ceylon, cns., dms.	lb.	.50	.90
Java, true, cns.	lb.	.65	.70
Java-type, cns.	lb.	.50	.95
Clove, USP from buds, cns., dms.	lb.	5.50	-10.75
Coconut, crude, tanks, N. Y.	lb.	.17¾	Nom.
Pac. Coast	lb.	.16¼	—
refined Cochin type tax incl., ret. dms., l.c.l.	lb.	.25	—
deodorized tax incl. non ret. dms., c.l.	lb.	.27¾	—
Cod, Newfoundland, dms.	lb.	.49½	.10
Codliver, USP, dms.	gal.	1.55	1.65
Copaiba, cns.	lb.	1.80	2.50
Coriander, USP bots	lb.	17.00	-23.50
Corn, crude, tanks, works	lb.	.14¼	—
foots (soapstock), acid, 95%, tanks, N. Y.	lb.	.04	—
refined, salad, dms.	lb.	.19¼	.19½
tanks	lb.	.17½	—
Costus, bots.	oz.	9.00	-25.00
Cottonseed crude, tanks, South-East	lb.	.13¾	—
Valley	lb.	.13½	.13⅝
Texas	lb.	.13¼	—
foots (soapstock), acid 95%, tanks, N. Y.	lb.	.02¾	—
raw, 50%, tanks, same basis	lb.	.01¼	—
refined, salad, dms.	lb.	.19¼	.19⅝
tanks	lb.	.17⅝	—
Creosote (see Creosote, coaltar)			
Croton, cns	lb	4.30	5.50
Crude (see Petroleum crude).			
Cubeb, cns	lb.	4.50	6.00
Cumin, bots.	lb.	4.50	5.25

CSC makes more METHANOL

With the recent opening of the valves of the newly completed $20 million facilities at Sterlington, Louisiana, Commercial Solvents Corporation becomes one of the world's largest producers of methanol, for sale to meet the growing needs of expanding American Industry.

For steady, dependable large-volume supply of methanol, CSC is your logical source.

High-quality CSC methanol, produced from natural gas, is being supplied at a minimum purity of 99.85% in tanker, barge, tank car, tank truck and drums to all parts of the United States from conveniently located bulk and distribution points. For further information contact the Industrial Chemicals Div., Commercial Solvents Corporation, 260 Madison Ave., New York, N. Y.

INDUSTRIAL CHEMICALS DIVISION
CSC
COMMERCIAL SOLVENTS CORPORATION

ALDEHYDES • ALCOHOLS • ESTERS • AMINES • AMINOALCOHOLS
AMMONIA • NITROPARAFFINS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

Oil, Cypress—Orris Root

Oil, cypress, bots ..... lb. 5.30 - —
Degras (see D).
Dillseed, bots. ..... lb. 2.80 - —
Dillweed, dom., dms., bots ... lb. 3.85 - 5.25
Dip (see D)
Erigeron, cns. ..... lb 5.50 - 7.50
Eucalyptus, NF rectified 70-80%, dms lb. .60 - .95
80-90%, dms. ..... lb. .83 - 1.25
Fennel, sweet, USP, cns ..... lb. 2.25 - 3.25
Fir, Canada, cns ..... lb. 2.65 - 3.10
Fish, refined, alkali, dms ..... lb. .1400- .1500
kettle-bodied, dms ..... lb. .1380- .1680
light-pressed, dms ..... lb. .1250- .1350
tanks ..... lb. .11 - —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gm., dms 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gm., dms 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gm., dms 1,000,000 units .10½- .11
100,000 A units per gm., dms 1,000,000 units. .12 - .14
200,000 A units per gm., dms 1,000,000 units. .12 - .14
300,000 A units per gm., dms 1,000,000 units. .12 - .14½
400,000 A units per gm., dms 1,000,000 units. .12 - .14½
500,000 A units per gm., dms 1,000,000 units. .12 - .14½

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots ..... oz. 9.00 -10.50

Oil, gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns ..... lb. 8.75 -11.00
Bourbon, cns. ..... lb.10.60 -13.50
Turkish (see Oil palmarosa)
Ginger, dist., bots ..... lb.10.00 -15.00
Grapefruit, dms ..... lb. 2.90 - 3.25
Grease, No. 1, dms ..... lb. .13 - .13½
extra, winter, strained, dms. lb. .16½- .17
prime, burning, dms ..... lb. .18 - .18½
Guaiacwood, cns ..... lb. 1.40 - 1.90
Hemlock, cns. ..... lb. 2.10 - 2.50
twice rectified, bots ..... lb 3.00 - 4.00
Far, NF (see Juniper tar).
Wood tech cns ..... lb .42 - .50
Juniper berry, NF, VIII, bots. lb. 2.75 - 4.00
Lard (see Oil grease).
Laurel leaf, dms., cns. ..... lb 9.75 -12.50
Lavandin, dms., cns ..... lb. 1.95 - 2.50
Lavender, flower, USP, French, 30-32% ester, cns. ..... lb 2.50 - 4.50
38-40% ester, cns ..... lb 5.25 - 7.25
40-42% ester, cns ..... lb 5.60 - 7.35
Spike, Spanish, cns ..... lb. 1.50 - 2.00
Lemon, USP, Calif., cns., dms. lb. 7.10 - 7.50
Messina, cns. ..... lb. 7.00 -10.00
terpeneless bots ..... lb 32.00 -85.00
Lemongrass, cns., dms ..... lb. .95 - 1.40
Lignaloe wood, Mex., cns ..... lb 3.25 - 4.25
Lime, distilled, Mexican, cns lb. 5.25 - 6.50
West Indian, cns ..... lb. 5.90 - 7.25
expressed, West Indian, cns. lb. 7.75 - 8.50
terpeneless, bots ..... lb.29.50 -100.00
Linseed, raw, dms., c.l., N. Y. lb. .1865- —
l.c.l. ..... lb. .1875- .1925
tankcar, f.o.b. Minneapolis lb. .1590- .1610
New York ..... lb. .1715- —
tankwagon, New York ..... lb. .1745- —

Boiled linseed oil, .006c per lb. higher.

Mace, dist., cns., dms ..... lb. 2.45 - 4.25
Mandarin, Floridian, dms ..... lb. 3.00 - 5.35
Italian, cns. ..... lb. 6.00 - 8.50

Oil, menhaden, crude, tanks, Atlantic Coast. lb. .06¾- —
Gulf ports ..... lb. .06¾- —
Mineral, white (see Oils, white, mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms ..... lb. .17½- .18
synthetic, cns., dms ..... lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms, lb. .33 - .34
20° cold test, dms. ..... lb. .32 - .33
30° cold test, dms. ..... lb .30 - .31
Neroli, NF, French, bots ..... lb.160.00 -250.00
petale, bots. ..... lb.38.50 -150.00
Nutmeg, USP dist., East Indian, cns., dms lb 2.85 - 3.65
West Indian, cns., dms lb 2.60 - 3.65
Ocotea cymbarum, dms ..... lb. .70 - .95
Oiticica, liquid, dms ..... lb. .19½- .20½
tankcars ..... lb. .18 - .18¼
Oleo, extra, dms ..... lb. .19 Nom.
Olibanum, bots. ..... lb. 5.50 - 7.65
extra fine bots ..... lb 8.00 —
Olive, commercial, dms ..... gal. 2.35 - —
edible, dms., duty paid ..... gal. 2.50 - 2.60
Orange, sweet, dist., cns ..... lb. .40 - .80
expressed, USP, Brazilian, cns., dms lb No stocks.
Calif., cns., dms ..... lb. .70 - 1.25
Florida, cns., dms ..... lb. .65 - 1.25
Messina, cns ..... lb. 3.85 - 5.85
West Indian, cns ..... lb. 2.75 - 4.00
sesquiterpeneless, bots ..... lb 135.00 -150.00
Origanum, Spanish, cns ..... lb. 1.95 - 2.85
Palm, clarified, dms ..... lb. .12½- .13
Palm kernel, in bond, tanks. lb. .16 Nom.
Palmarosa, cns ..... lb. 5.00 - 8.75
Paraffin, pale, 100-110 vis., at 100°F tanks, East Coast refinery gal 14 —
Patchouli, dms. ..... lb. 7.25 - 9.25
Peach kernel, USP (see Oil apricot kernel).

Oil, peanut, crude, tanks, f.o.b. mills. lb. .19½- —
refined, dms. ..... lb. .26¼- .26¾
tanks ..... lb. .24¾- —
Pennyroyal, USP, imported, cns. lb. 1.60 - 2.40
Peppermint, natural, dms ..... lb. 4.50 - 6.35
redist., USP, dms ..... lb. 4.90 - 7.25
Persic USP (see Oil apricot kernel)
Petitgrain, South American, cns., dms. lb. 2.40 - 2.70
Pimento berry, NF, dms. ..... lb. 4.35 - 5.75
leaf, cns. ..... lb. 2.25 - 3.00
Pine, dest., dist., dms., extra, c.l., works gal. .73¼- —
l.c.l. ..... gal. .76½- —
ex whse. ..... gal. .95½- —
steam dist., dms., ex whse., N.Y.C. lb. .143 - .153
Pineneedle, Siberian (see Oil, pables sibericus).
Putty, petroleum, dms., c.l., dlvd. lb. .11 - —
l.c.l. same basis ..... lb. .12 - —
tanks, same basis ..... lb. .10 - —
Rapeseed, tankcars ..... lb. .16¼- —
Red (see Acid, oleic).
Rice bran., clarif., dms ..... lb. .16½- .16¾
tanks, dlvd. E ..... lb. .14½- —
Rose natural, Bulgarian, bots oz.55.00 -62.25
Rosemary Spanish, tech. cns., dms. lb. .60 - .70
USP, cns., dms ..... lb. .75 - 1.00
Rue, bots. ..... lb. 1.80 - 2.50
Safflower dms. c.l. Atlantic coast. lb. .17¼- —
tanks, same basis ..... lb. .15¾- —
Sage, clary bots ..... lb.20.00 -25.00
Dalmatian, cns ..... lb. 7.50 - 8.25
Spanish, cns ..... lb .90 - 1.25
Sandalwood, NF, cns ..... lb. 9.25 -11.50
Sardine crude tanks Pac. coast. lb. No stocks.
Sassafrass, artificial, dms ..... lb. .42 - .70
natural Brazilian (See Oil ocotea cymbarum)
domestic, USP, cns., dms. lb. 1.75 - 2.25
Savin, cns ..... lb. 2.75 - —
Savory, cns ..... lb No stocks.
Sesame, refd., dms ..... lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works. lb. .33 - —
l.c.l., works ..... lb. .35 - —
tanks, works ..... lb .23 - —
Snakeroot, Canada, cns ..... lb.29.50 -33.00
Soybean, crude, tanks, mills ... lb. .13⅜- —
foots (soapstock), acid, 95%, tanks, N. Y. lb. .05 Nom.
raw, 30%, tanks, N. Y. ... lb. .02 - —
refined, alkali, dms., c.l ... lb. .17⅜- —
tanks. lb. .15⅜- —
clarified, dms., c.l. ..... lb. .16⅜- .17¼
tanks ..... lb. .15⅜- —
salad, dms. ..... lb. .17⅜- .18¼
tanks ..... lb. .16⅜- —
Spearmint, USP, dms ..... lb. 5.75 - 6.55
Sperm, bleached winter, 42°, dms. lb. .1375- .1450
tankcars ..... lb. .1200- —
natural winter, 45° dms ..... lb. .1275- .1325
tankcars ..... lb. .1100- —
Spruce, cns., dms ..... lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb 4.95 - 9.50
Southern, cns ..... lb. 2.00 - 3.00
Tall, crude, tanks, works ..... ton.45.00 - —
refined, dms., c.l., works ... lb. .06¼- .07¼
l.c.l. works ..... lb. .06½- .07¼
tanks, works ..... lb. .05 - .06
Tallow, acidless, dms ..... lb. .12½- .13
Tansy, dms. ..... lb. 7.75 - 9.00
Tar, pine, com'l, dms., extra, c.l., works gal. .42½- —
l.c.l., works ..... gal. .50½- —
whse ..... lb. .0678- —
tanks, works ..... gal. .33½- —
rectified, NF, dms. incl., l.c.l., works, South gal. .90 - —
whse., N.Y.C. ..... gal. 1.00 - —
Tar acid (see T)
Theobroma (see Cocoa buttter).
Thyme, NF, red, cns., dms. lb. 1.70 - 3.75
white, cns. ..... lb 1.95 - 4.00
tech. white cns ..... lb. .40 - 1.85
Tung, dms., c.l., N. Y. ..... lb. .25½- —
l.c.l., same basis ..... lb. .26 - .26½
tanks, N. Y. ..... lb. .23½- —
domestic, mills ..... lb. .24½- —
Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms ... lb .20 - .45
Vetiver, Bourbon, cns. ..... lb.16.00 -20.50
Haitian, cns. ..... lb.13.00 -16.00
Java, cns. ..... lb.22.50 -40.00
Wheat germ, 5-gal. dms ..... gal.10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms., f.o.b. N. Y., c.l. gal. .51½- .54¼
65-75 vis., same basis, c.l., gal. .52½- .55
l.c.l. ..... gal. .57½- .58¼
NF, 80-90 vis., same basis, c.l gal. .53½- .56½
l.c.l. ..... gal. .58½- .59¼
125-135 vis., same basis, c.l gal. .59½- .62½
l.c.l. ..... gal. .64½- .65¼
145-155 vis., same basis, c.l gal. .66 - .68½
l.c.l. ..... gal. .71 - .71½
175-185 vis., same basis, c.l gal. .69½- .73
l.c.l. ..... gal. .74½- .75
USP, 200-210 vis., same basis, c.l gal. .72½- .75
l.c.l. ..... gal. .77½- .78
345-355 vis., same basis, c.l gal. .77 - .80
l.c.l. ..... gal. .83 - .85
Wintergreen, USP, nat., Northern, cns lb. 7.15 -14.50
Southern, cns ..... lb. 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil tung).
Wormseed, cns. ..... lb. 5.50 - 8.60
Wormwood, cns. ..... lb. 5.50 - 6.85
Ylang-ylang, Bourbon, bots ... lb.20.00 -30.00
extra, bots ..... lb.30.00 -40.00
Madagascar bots ..... lb No stocks.
Oleostearine, bbls. ..... lb. .14 Nom.
Olivine aggregate, bulk, c.l., mines. ton. 7.00 - 9.50
crushed 8 mesh, bulk, c.l works ton.10.00 - —
paper, bgs, c.l., works ton.12.00 - —
Opium, USP, cns ..... lb.17.20 -19.45
gran., USP, cns ..... lb.21.65 -21.89
powd., USP cns ..... lb.21.65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies. lb. 1.59 - —
Chrome, CP, bbls., dlvd N. of Tenn and N. C., E of Miss. R., include Davenport, Iowa, and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —

Chrome orange prices are ½c. higher dlvd Ala., Fla., Ga., La (Shreveport), 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c higher dlvd Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dinitroanilin toner ..... lb. 1.30 - —
Mineral, American, bbls, l.c.l., works. lb. .1910- —
Molybdated, bbls ..... lb 44 - —
Orthonitroanilin toner, kgs lb 1.15 - —
Persian, bbls. ..... lb. .65 - —
Peel, bitter Haitian, bls ..... lb. .12 - .14
sweet, bls ..... lb. .16 - .18
Orris root Florentine, bls ..... lb. .29 - .30
powdered, bbls., bxs ..... lb. .35 - .38
Verona, bls ..... lb. .19 - .20
powdered, bbls., bxs ..... lb. .26 - —

A CONTINUED STORY BY ONE OF AMERICA'S OLDEST GLASS MANUFACTURERS

The Case of the Acid Carboy . . .

by GAYNER

One of the most important steps in the manufacture of glass carboys is the packing and preparation for safe shipment. And that's where Paul Counsellor comes into the Gayner Glass picture.

For seventeen years, Paul has served in a supervisory capacity, following in his father Dave's footsteps and developing into one of the most versatile and efficient supervisors on the Gayner staff of glass-making experts.

The illustration shows Paul checking the packing of 13-gallon MCA standard glass carboys. Performance to exact standards and close inspection of box, cork and bottle assure delivery of perfect packages meeting I.C.C. requirements. This unusual care in packing combines with the following eight "time-proven" points to make Gayner Glass Carboys the favorite acid and chemical carrier of the process industries for almost 60 years.

TIME-PROVEN CARBOY POINTS

1—Gayner glass is fully annealed. Maximum shock-resistance for safety.
2—Uniform, heavy walls. Strong, durable, greatest serviceability.
3—Easy to clean because it's GLASS. Re-usable for same or different liquids.
4—Resistant to chemical attack. No pores or pits to absorb water or chemicals.
5—Bottle held firmly by cork wedges. All corners of box securely cushioned.
6—Light in weight—low return costs.
7—Box is clear, sturdy, seasoned white pine. Bottle easy to install; convenient to handle and store.
8—Approved by Bureau of Explosives. MCA Standard 13-gallon carboy bottles.

Write today for illustrated brochure on carboys, bottles, boxes and cartons.

IMMEDIATE DELIVERY ON ALL TYPES
FROM 1 LB. BOTTLES TO 13-GALLON CARBOYS

GAYNER GLASS WORKS
SALEM, NEW JERSEY
FOUNDED IN 1874
MANUFACTURERS OF FINE GLASS CONTAINERS
FOR CHEMICALS, DRUGS, OILS, WINES, JUICES . .

Orthoaminobiphenyl, dms., c.l., works lb. .32½- —
t.c.l. same basis lb. .33 - —
tanks, same basis lb. .37 - —
Orthoanisidin, bbls. lb. .68 - —
Orthochloroanilin, dms., c.l. lb. .70 - —
t.c.l. lb. .72 - —
Orthochlorobenzaldehyde, dms., works lb. 1.20 - —
Orthochloroparanitroanilin, dms., dlvd lb. 80 —
Orthochlorophenol, dms, c.l., frt. equald lb. .34½- —
t.c.l. same basis lb. .35½- —
Orthocresol, pure, 30° C., non-ret., dms, c.l. frt. equald lb. .173 - —
t.c.l. same basis lb. .176 - —
ret dms., c.l. same basis lb. .17 - —
t.c.l. same basis lb. .17½- —
tanks, same basis lb. .15 —
29°C., ret. dms, c.l. same basis, lb. .16 - —
t.c.l. same basis lb. .16½- —
tanks, same basis lb. .15 —
25-29°C., non-ret dms, c.l., same basis lb. .153 - —
t.c.l. same basis lb. .156 - —
tanks same basis lb. .140 —
Orthodichlorobenzene, dms, c.l., works frt alld E. of Rockies lb. .12¼- —
t.c.l., same basis lb. .13¼- —
tanks same basis lb. .10¾- —
Orthonitroanilin, flaked, dms lb. .54 - .57
powd., dms lb. .60 —
Orthonitrochlorobenzene dms lb. 20 .21
Orthonitrophenol tech. dms, c.l., works lb. .14½- —
t.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Orthonitropatachlorophenol cns lb. 75 —
Orthonitrophenol, bbls, works, frt, equald lb. .94 - —
Orthonitrotoluene dms, c.l. frt alld. lb .10 - —
t.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
Orthophenetidin dms, works lb 1.00 —
Orthophenylphenol fib dms, works, lb. .20 .44
Ortho-tertiary-amylphenol dms, c.l., works lb. 43¾ —
t.c.l., works lb. 46¾ —
tanks, works lb. 41¾ —
Orthotolidin (see Tolidin Base).
Orthotoluidin dms., c.l., works lb. 23 - —
t.c.l. same basis lb. 24 - —
tanks, same basis lb. .22 - —
Osage orange, crystals, No 1, bbls., t.c.l lb. 40 - —
extract, liquid No. 1, bbls., t.c.l lb 19 - —
Ouabain, USP, bots gram 3.00 - 4.00
Ox bile, extract, powdered USP 5-lb lots or more lb 6.00 - —
not extract, powdered 5-lb lots or more lb 4.35 - —
Oxyquinolin sulphate cns., 100-lb lots, works lb 4.75 5.00
smaller lots, works lb. 4.92 5.17

P

Pancreas substance, assay 1:75 bots., 5-lb lots or more lb 5.75 - —
Pancreatin USP bots lb 2.50 3.00
Panthenol bots, works, frt. adjust kilo 90.00 —
Papain, powd., African lb. 7.00 - —
Ceylon lb. 5.50 - —
Papaverine natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz. lots oz 5.00 —
smaller lots oz 5.55 5.20
Sulphate, cns oz. 7.10 - 7.35
Paprika, Czech, bgs lb. No stocks.
Spanish, bgs lb. .45 - .46
Para-anisidin, dms., works lb. .97 - —
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted lb 17.50 -21.00
Para-aminophenol dms, frt, alld lb .97 - .98
Parachloroanilin, dms., c.l., works, frt, equald lb. .75 - —
Parachlorobenzaldehyde dms., works lb. 1.33 - 1.36
Parachloro-orthonitroanilin, dms., frt alld lb. .73 - .82
Parachlorophenol, dms., c.l., frt. equald lb. .34½- —
t.c.l. same basis lb. .35½- —
Paracresol 98%, dms., c.l., dlvd lb. 49 - —
t.c.l., dlvd lb. 51 - —
Methylether, cns lb. 1.90 - 2.50
Paracymene, dms., 50-gal lots or more, works gal. 2.50 - —
smaller lots gal 3.00 - —
Paradibromobenzene bgs. 500-lb lots, lb. .55 - —
Paradichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies lb. .16½- —
t.c.l., same basis lb. .17½- .18½
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., ref'y lb. .06 - —
fully refined, 122°-124°F, ASTM, loose c.l., rfy lb. .0795- —
125°-127°F, ASTM, loose, c.l., rfy lb. .0795- —
Paraffin, fully refined, 130°-132°F, ASTM, loose, c.l., ref'y lb. .0805- —
132°-134°F, ASTM, loose, c.l., refy lb. .0805- —
135°-137°F, ASTM, loose, c.l., ref'y lb. .0805- —

Prices for paraffin in bags and ctns. c.l., 7 10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c per lb higher and under 1,000 lbs., 3.7c. per lb. higher

Paraformaldehyde, 91%, powd., bgs., c.l., frt. alld lb. .15½- —
t.c.l., frt. alld lb. .17 - —
flake, bgs., c.l., frt. alld lb. .12 - —
t.c.l., frt. alld lb. .13½- —
USP X, fib dms., c.l. lb. .198 - —
10,000-lb lots lb. .193 - —
1,000-lb. lots lb. .193 - —
smaller lots lb. .203 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works lb. .1385- .1650
t.c.l., works lb. .1485- .1750
tanks, works lb. .1300- .1500
Paranitroanilin, dms., c.l., works, frt. alld. lb. .50½- —
t.c.l., works, frt. alld lb. .53½- —
Paranitrochlorobenzene, kgs., works, lb. .26 - .27
Paranitrophenol, kgs., works, frt. equald lb. .50 - —
Paranitrotoluene, kgs., fib, dms., works lb. .33 - .36
Paraphenetidin, dms., works lb. 1.00 - —
Paraphenylenediamine, redistilled, dms, works lb. 2.00 - —
tech., retd. dms, same basis lb. 1.10 - 1.35
Paraphenylphenol, bgs., c.l., works, lb. .37½- —
t.c.l., same basis lb. .42 - —
Para-tertiary-amylphenol, ctns., c.l., works lb. .26½- —
t.c.l., works lb. .27½- —
tanks, works lb. .25½- —
Para-tertiary butylphenol, bgs., c.l., works lb. .27½- —
t.c.l., same basis lb. .28½- —
Parathion, spray powder, 15% dealers, tins, works lb. .45 - —
tech., dms., works lb. 1.50 - —

Paratoluenesulphonamide, sacs, bbls., frt. alld lb. .64 - .66
powd., bbls, works lb. .70 - —
solid, bbls., frt. alld lb. .61 - —
Paratoluidin flake, bbls., frt. alld, to. .64 - —
solid, bbls., frt. alld lb. .60 - .61
Paris green, dealer, distributor, dms., c.l., works, frt alld, on 96 lbs or over lb. .36 - .40
t.c.l. same basis lb. .37 .53
Passion flower herb, bls lb. .21 - .23
Peanut meal 45% old proc. sacked, mills ton. 67.00 - —
solvent, same basis ton. 62.00 - —
Pectin, citrous, NF powd. bbls lb 2.05 2.06
tech., powd. bbls lb 1.50 —
Penicillin, crystalline, potassium, sterile bulk, 1,000,000 units . .03½ .09
Procaine, bulk, 1,000,000 units . .03½ .09
Sodium, sterile, bulk, 1,000,000 units. .03½ .09
Pentachlorophenol dms, c.l., works, frt equald lb. .21 —
t.c.l. same basis lb. .24 .29
truckload, 20,000 lbs min same basis lb .21¼ —
Pentaerythritol tech. bgs c.l., works lb. .34 - —
t.c.l., works lb. .35 .38
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol)
Pentane, industrial, tanks, Tex. ref'y gal. .14½- —
Pepper, black, Malabar, spot, bgs lb. 1.00 - —
red, Gondar, bgs lb. .32 - —
Japanese, hontakas, bgs lb. .49 - .50
birdseyes, bgs., new crop lb. .57 - .58
Mombasa, bgs., ship't lb. .55 Nom.
Nigerian, bgs lb. .33 .35
Turkish, bgs lb. .30 - .31
Zanzibar, bgs. lb. .55 Nom.
white, bgs. lb. 1.10 - —

Orthoaminobiphenyl—Petroleum, Fuel Oil, Furnace

Peppermint leaves, USP, dom., bls., dms lb. .65 - .70
imported, bls lb. 1.25 Nom.
Pepsin NF 1-3,000 bulk lb 3.75 - 3.90
Perchloroethylene dms c.l. or truckloads, works lb. .11½- —
dlvd., E. lb. .11½- —
t.c.l., dlvd. ex whse lb. .12½- —
dlvd E lb. .13½ —
Peru balsam, dms. lb. 1.25 - 1.40
Petrolatum, amber, dms., c.l., refy. lb. .05 - .05⅝
t.c.l., dlvd lb. .06¾- .07
tanks, refy lb. .03¼- .04⅛
cream, dms., c.l., refy lb. .06⅛- .07⅛
t.c.l., dlvd lb. .06½- .08¾
tanks, refy lb. .04⅜- .05⅝
extra, amber, dms., c.l., refy lb. .05¼- .05⅞
t.c.l., dlvd lb. .07 - .07¼
tanks, refy lb. .03½- .04⅜
USP, white, lily, dms., c.l., ref'y lb. .06⅜- .07½
t.c.l., dlvd lb. .08⅞- .09⅛
tanks, refy lb. .04⅞- .06
snow, dms., c.l., refy lb. .07⅛- .07¾
t.c.l., dlvd lb. .09¾- .03⅜
tanks, refy lb. .05⅜- .05⅞
soft, dms., c.l., refy lb. .06¾- .07⅜
t.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .05 - .05½
yellow, soft, dms., c.l., refy lb. .05¼- .05⅞
t.c.l., dlvd lb. .06⅞- .07⅛
tanks, refy lb. .03½- .05⅞
Petroleum, crude, bulk, at wells, California bbl. 1.42 3.52
Illinois bbl. 2.69 - 2.02
Kentucky bbl. 2.62 3.02
Louisiana-Arkansas bbl. 2.33 - 3.23

Petroleum, crude, bulk, at wells, Montana bbl. 1.53 2.90
Oklahoma-Kansas bbl. 2.48 2.90
Penna., lower field bbl. 3.54 - —
Upper field bbl. 4.05 - —
Texas, East bbl. 2.90 - —
Gulf Coast lb. 2.63 - 3.23
North, North-Central bbl. 2.48 2.90
Panhandle bbl 2.48 2.90
West bbl. 2.35 2.90
Wyoming bbl. 1.53 2.90
Fuel oil, bunker C. No. 6, East Coast, Baltimore, Md. bbl. 2.25 - —
Boston, Mass. bbl. 2.29 - —
Charleston, S. C. bbl. 2.20 - —
Jacksonville, Fla bbl. 2.18 - —
New York Harbor bbl. 2.25 - —
Norfolk, Va. bbl. 2.23 - —
Philadelphia, Pa. bbl. 2.25 - —
Portland, Me. bbl. 2.29 - —
Providence, R. I. bbl. 2.26 - —
Savannah, Ga. bbl. 2.20 - —
West Coast bbl. 1.80 - 2.10
Diesel, tanks, refy., California gal. .1025- .133
New York gal. .099 - .104
Penna. western gal. .1075- .1125
Furnace, tanks, refinery, Arkansas, No. 2 gal. .085 - —
No. 3 gal. .08125- —
N. Y. Harbor No. 2 gal. .095 - .10
group 3, No. 1 gal. .03 25- .08875
No. 2 gal. .08 .0825
No 3 gal. .0775- .08
range gal. .08625- .09
Pennsylvania, western, No. 1 gal. .11 .1145
No. 2 gal. .109 - .1135
No. 3 gal. .1075- .1135

DUVAL SULPHUR and POTASH CO.
Modern New Plant and Refinery at Carlsbad, New Mexico

Address all communications to:
ASHCRAFT-WILKINSON CO.
Exclusive Distributors
ATLANTA, GEORGIA
Cable Address ASHCRAFT

Petroleum, Lacquer Diluent—Potash, Caustic, Regular, Liquid

Petroleum, lacquer diluent, 150°-240°F, b.r., 43°-55°C, m.a.p. tanks, West Coast, ex tax, Los Angeles gal. .183 - —
East coast, N. J., N. Y. gal. .18 - —
Group 3, benzol-type gal. .14125- .14625
toluol-type gal. .13125- .13375
Mineral spirits, regular, tanks, California, ex tax, San Francisco gal. .174 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —
specially refined, tanks, refy., Watson, Calif. gal. .244 - —
Borger, Tex. gal. .24 - —
Houston, Tex. gal. .24 - —
Wood River, Ill. gal. .2625- —
tank transport, dlvd. N. J. gal. .32 - —
dlvd. N. Y. gal. .33½- —
tankwagon, N. J., N. Y. dlvd. gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J. and N. Y. gal. 17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .165 - .17
High solvency (see petroleum solvent, partial aromatic).

Petroleum, naphtha, V.M.&P., 225°-300°F., b.r., tanks, West Coast, Los Angeles gal. .168 - —
Portland, Ore. gal. .174 - —
San Francisco gal. .173 - —
Seattle, Wash. gal. .174 - —
East coast, N. J., N. Y., gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .195 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205° 292°F. b.r., 37° 38°C. m.a.p. gal. .26 - .27½
17°-29°C. m.a.p gal. .29 - .32½
266°-383°F. b.r., 35°C. m.a.p. gal. .29 - —
27°-28°C. m.a.p gal. .29 - .31
19°C. m.a.p gal. .34 - —
310°-392°F. b.r., 30°-38°C. m.a.p. gal. .27 - .32½
17°-19°C. m.a.p gal. .35 - .39
350°-425°F. b.r., 32°-34°C. m.a.p gal. .30½- .32½
25°C. m.a.p gal. .39½- —
18°-21°C. m.a.p gal. .35 - .43½
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y., gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —

Petroleum, solvent, Stoddard tankwagon, Boston gal. .19 - —
gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .173 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .165 - .17
Pittsburgh gal. .18 - —
Sulphonate, oil soluble, 60-62% sulphonic content, non-ret. dms., c.l., works lb. .16 - .18¼
l.c.l., works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulphonic content, non-ret. dms., works lb. .15½- —
l.c.l., works lb. .16½- —
tanks, works lb. .12½- —
Phenobarbital, USP, dms., 100-lb. lots lb. 4.00 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 4.00 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt. alld. E. of Rockies lb. .17¾- —
l.c.l., same basis lb. .18½- —
ret. dms., c.l., same basis lb. .17 - —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .16 - —
82-84% (cresol 16-18%), non-ret., drums c.l., same basis lb. .17¼- —
l.c.l., same basis lb. .18 - —
ret., dms., c.l., same basis lb. .16½- —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .15½- —
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .19¼- —
l.c.l., same basis lb. .20 - —
ret. dms., c.l., same basis lb. .19 - —
l.c.l., same basis lb. .19½- —
tanks, same basis lb. .17½- .18

Phenol, USP, synthetic, dms., c.l., same basis lb. .19¾- —
l.c.l., same basis lb. .20½- —
tanks, same basis lb. .18 - —
Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazin, NF, fib. dms., c.l., frt. adjusted lb. .53 - —
over 2,100 lbs., same basis lb. .55 - —
less than 2,100 lbs., same basis lb. .57 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol)
Phenylacetaldehyde solution, 50%, bots lb 2.40 2.70
100% bots lb 4.00 4.65
Phenylacetamide 125-lb dms. works lb 1.10 - —
smaller dms., works lb 1.15 1.10
Phenylalanine, dextro-laevo, dms., works lb 27.00 -37.50
Phenylcarbethoxy pyrazolone, 250-lb fib dms., dlvd. E lb 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine, dms., c.l., dlvd E. lb. .40 - —
l.c.l., dlvd. E lb. .41 - —
Phenylethanolamine, dms., c.l., works lb. .69½- —
l.c.l., same basis lb. .70 - —
Phenylethyl acetate, bots lb. 1.35 - 1.95
Phenylethylphenyl acetate, bots lb. 3.95 - 4.40
Phenylhydrazin base, CP, bots lb 3.00 3.07
Hydrochloride, commercial kgs., works lb. 1.75 - —
purified, bots., works lb. 5.17 - —
Phenylmethylpyrazolone (see Methylphenylpyrazolone).
Phloroglucinol, comi., fib dms., works lb 6.40 - —
C.P., bots. fib. dms lb 17.00 -17.25
tech., fib., dms works lb 10.45 - —
Phosgene, 150-lb cyls., works lb 27½- —
Phosphate defluorinated (see under D)
Rock, Curacao, Atlantic ports ton 45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70-68%, b.p.l., c.l., same basis long-ton. 4.68½- —
72-70%, b.p.l., c.l., same basis long-ton. 5.68½- —
75%-74%, b.p.l., c.l., same basis long-ton. 6.68½- —
77%-78%, b.p.l., c.l., same basis long-ton. 7.68½- —
finely ground, 65% b.p.l., basis 30% P_2O_5, minimum, bulk, c.l., mines. short-ton 5.60 - —
68%, b.p.l. basis 31% P_2O_5, minimum, mines. short ton. 5.80 - —
70%, b.p.l. basis 32% P_2O_5, minimum, mines. short-ton. 6.15½- —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c. per long ton higher.
Phosphorus, red, amorphous cs., lb. .46 - .47
dms. lb. .44 - .45
yellow, cns., works lb. .48 - .50
dms., c.l., works lb. .40 - —
l.c.l., works lb. .43 - —
Oxychloride, dms., c.l., works lb. .14 - —
l.c.l., dms., works lb. .17 - —
tankcars, works lb. .12½- —
Pentasulphide, solid, dms., c.l., works lb. .11½- —
l.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .13½- —
l.c.l., works lb. .16½- —
Sesquisulphide, tins, cs., works lb. .29 - —
export, dms. lb. .31 - .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .17 - —
tankcars, works lb. .12½- —
Phthalic anhydride, dms., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tanks, same basis lb. .21½- —
Phthalimide, 97%-98% dms. works, frt. alld lb. .65 - .70
Phthalylsulphacetamide, fiber dms., lb. 5.00 - 5.50
Picoline (See Alpha, Beta and Gamma Picoline).
Pilocarpine hydrochloride, NF, bots oz. 5.25 - —
Nitrate, USP, bots., vials oz. 5.10 - 5.20
Pimento, Guatamalan, bgs. lb. .20 Nom.
Jamaican, bgs. lb. .29 - —
Mexican, bgs. lb. .23 - .25
Pinetar, retort, dms., incl. c.l., works gal. .44 - —
l.c.l., works gal. .46 - —
tanks, bulk, works gal. .35 - —
Pinkroot, bls lb. 3.00 - 3.25
Piperazine hexahydrate, French Codex dextro, bots kilo. 8.00 - 8.50
Piperidine, 98%, dms., frt. equald. lb 2.90 - 3.00
Piperonyl butoxide, dms., dlvd. E lb. 4.50 - 5.30
Cyclonene, dms. dlvd E lb 4.20 4.50
Pitch, burgundy, domestic, dms., mc. c.l., l.c.l. works 100 lbs. 9.80 -10.25
Coaltar, 140°-150° F., m.p., dms., c.l., works ton 41.20 -42.09
Cottonseed, dms., works lb. .02¼- .03
Hardwood, paper bgs., c.l., works. lb. .02 —
Linseed, dms lb. .06 Nom.
Petroleum (see Asphalt, petroleum).
Pine, dms., incl., l.c.l., works, South 100 lbs. 8.25 - —
Soybean, dms., works lb. .05 Nom.
Tall, dms., works lb. .03¾- .04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 93.00 - —
Pleurisy root, bls lb. .45 - .50
Podophyllum resin, NF, dms lb. 8.75 - —
Pokeroot, bls lb. .19 - .22
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .43 - —
10,000-20,000-lb. lots, works. lb. .45 - —
smaller lots, works lb. .48 - .50
Tristearate, dms., 20,000-lb. lots, works lb. .43 - —
10,000-20,000-lb. lots, works. lb. .45 - —
smaller lots, works lb. .48 - .50
Polystyrene, colors, special, bgs., over 20,000 lbs., frt. alld. lb. .35½- .36
10,000-19,999-lb. lots, same basis lb. .36 - .36½
5,000-9,999-lb. lots, same basis. lb. .36½- —
standard, bgs. lb. .35½- .36
crystals, heat-resistant, bgs., c.l. lb. .34 - —
l.c.l. lb. .34½- —
standard, bgs., c.l. lb. .32½- —
l.c.l. lb. .33 - —
Polystyrene in non-returnable fib., dms., ½c. per lb. higher.
Poppyseed, Argentine, bgs. lb. .14½- —
Dutch, bgs. lb. .18 - —
Polish, bgs. lb. .17½- —
Turkish, bgs. lb. .14 - —
Potash, caustic, regular, flake, 88-92%, dms., c.l., works. 100 lbs. 9.15 - —
l.c.l., works 100 lbs. 10.20 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —

A partial list of Oronite Products

Detergent Alkane	Purified Sulfonate
Detergent Slurry	Polybutenes
Detergent D-40	Naphthenic Acids
Detergent D-60	Phthalic Anhydride
Dispersant NI-O	Maleic Anhydride
Dispersant NI-W	Para-Xylene 95%
Wetting Agents	Ortho-Xylene
Cresylic Acids	Xylol
Gas Odorants	Aliphatic Acid
Lubricating Oil Additives	Hydroformer Catalyst
Sodium Sulfonates	Dispersant FO (Furnace Oil Inhibitor)

ORONITE will soon have Phenol available in tank car quantities and will be able to offer you advantages as a *real* source of supply.

Because Oronite is a producer of benzene, which continues to be scarce, we have control of the principal raw material. Too, the Oronite manufacturing process does not use either chlorine or sulfuric acid, also often in short supply.

With Oronite you will be assured of a dependable source of supply, good service and product when you need it.

You will find Oronite Phenol fully meeting the U.S.P. specifications and priced competitively. Contact any Oronite office for further information.

ORONITE CHEMICAL COMPANY

200 SANSOME ST., SAN FRANCISCO 4, CALIF. STANDARD OIL BLDG., LOS ANGELES 15, CALIF.
30 ROCKEFELLER PLAZA, NEW YORK 20, N.Y. 600 S. MICHIGAN AVENUE, CHICAGO 5, ILL.
MERCANTILE SECURITIES BLDG., DALLAS 1, TEXAS

Potash, caustic, regular, solid 88-92% dms., c.l. works	100 lbs.	8.70 -	—
l.c.l., same basis, works	100 lbs.	9.75 -	—
Potassium abietate, dms., works	lb	.25	.28
Acetate, NF, dms	lb	.27	.36
Bicarbonate, USP, gran., dms	lb.	.22 -	—
powd. dms	lb	.24	—
Bichromate, bgs., c.l., works	lb.	.15 -	—
l.c.l. same basis	lb.	15½	16¾
Potassium bichromate in drums 3c per lb higher			
Bitartrate (see Cream of tartar)			
Bromate, bbls., 1,000 lbs. or more,	lb.	.50	.52
25-200-lb lots	lb	.55	.57
Bromide USP gran. bbls. kgs.	lb.	.54	—
Carbonate, tech., calcined, bbls., c.l., works	100 lbs.	9.00 -	—
l.c.l., same basis	100 lbs.	10.05 -	—
hydrated, 83-85%, bbls., c.l., works	100 lbs	7.60 -	—
l.c.l., works	100 lbs.	8.65 -	—
USP gran., bbls., dms	lb.	16½	18
powd., bbls., dms	lb.	.21 -	.23
Chlorate cryst., dms., c.l., works,	lb.	.10¼ -	—
l.c.l. works	lb.	.11½ -	.12
powd., dms., c.l., works	lb.	.10¾	—
l.c.l. works	lb.	.12	12½
export, dms., New York	lb.	.12¾ -	.13½
NF gran., dms	lb	.30	.36
Chloride, USP, cryst., dms	lb.	.21 -	.23
gran. dms	lb	15	17
powd. dms	lb	.24	.26
Chromate, tech., bgs	lb.	.50 -	.50½
Citrate, USP, gran., dms	lb.	.41 -	—
powder, dms	lb	40½	41½
Cyanide, dms., 500-lb. lots or more, works	lb.	.55 -	—
smaller lots works	lb.	.57	—
Fluoborate, fib. dms., c.l., works	lb.	.30 -	—
l.c.l., works	lb.	.31 -	—
Fluoride, dms., works	lb.	.32 -	—
Gluconate dms	lb	75	79
Glycerophosphate, 75% solution cbys	lb.	2.15	2.25
Guaiacsulphonate, NF, dms	lb	2.10	2.30
Hydroxide, tech. (see Potash caustic),			
USP, pellets 100-lb dms. 1 to 100-dm. lots	lb.	.28½ -	.33
Hypophosphite, NF, fib. dms., ton lots or less	lb.	1.00 -	1.03
Iodine, dms.	lb.	2.15 -	—
Manure salt 22% K_2O, bulk, mines	unit-ton	.21	—
Metabisulphate, gran., dms	lb.	.20 -	.21
powd. dms	lb	25	—
Muriate, dom. 50-60% K_2O, bulk, Carlsbad, N. M.	unit-ton.	.43 -	—
Trona, Cal.	unit-ton	.53 -	—
50-51% K_2O paper bgs., Carlsbad, N. M.	ton.	25.75 -	—
Nitrate (see Saltpeter)			
Oxalate, neutral tech., fine gran., bbls., dms	lb.	.30 -	.32
Pentaborate, gran., bgs., c.l., works	ton.	184.00 -	—
bbls., ton lots, ex whse.	ton.	261.00 -	—
smaller lots, ex whse.	ton.	286.00 -	—
Powdered Potassium pentoborate $10.25 per ton higher			
Perchlorate, dms., c.l., works	lb.	.15 -	—
l.c.l., works	lb.	.16½ -	—
Permanganate, tech., dms., works	lb.	.22½ -	.23½
USP dms. works	lb	24¾	.30¼
Persulphate, dms. c.l., works	lb.	.18	.19
l.c.l. works	lb	.20	.22
Phosphate, tetrabasic, bbls., works	lb.	.16½ -	.18½
Prussiate red bgs	lb.	.60	.62
yellow dms ton lots	lb	22½	—
smaller lots	lb.	.23 -	—
kegs	lb.	.28 -	—
Silicate, glass, bgs., c.l., works,	100 lbs.	17.00 -	—
l.c.l.	100 lbs.	17.80 -	—
solution, clarified, 29° Be, 1:2.5, dms., c.l., works	100 lbs.	5.80 -	—
l.c.l., 5 dms., or more, works	100 lbs	6.55 -	—
tanks, works	100 lbs.	5.45 -	—
tech., 29° Be, 1:2.5, dms., c.l., works	100 lbs.	6.50 -	—
l.c.l., 5 dms. or more, works	100 lbs.	7.00 -	—
tanks, works	100 lbs.	7.00 -	—
40.5° Be., 1:2.6, dms., c.l., works	100 lbs.	6.45 -	—
l.c.l., 5 dms. or more, works	100 lbs.	7.20 -	7.30
tanks, works	100 lbs.	6.10 -	6.15
Silicofluoride, bbls., works	lb.	.09 -	.10
Stannate, dms., frt. alld., E	lb.	.639 -	.705
Sulphate agricultural, 49-51%, K_2O, bulk, works	ton.	37.25 -	—
NF VII cryst. dms	lb	31	.33
gran. dms.	lb.	18½ -	—
powder dms	lb.	.16½ -	.17
Sulphocyanide, NF, cryst. (see Potassium thiocyanate)			
Thiocyanate, NF, cryst. dms	lb.	.55 -	.94
tech., works	lb.	.77 -	.79
Titanate, ctrs., c.l., works	lb.	.14 -	—
5-ton lots, works	lb.	.14½ -	—
1-ton lot or less, works	lb.	.14¾ -	—
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO	ton.	16.00 -	—
Potassium-sodium tartrate (see Rochelle salt)			
Potassium-titanium fluoride, fib. dms., works	lb.	.39 -	.40
Oxalate, bbls., dms	lb.	.85 -	.95
Potassium-zirconium fluoride, fib. dms., c.l., works	lb.	.50	—
l.c.l., works	lb.	.52½ -	.55
Progesterone, USP, bots., 100-gr. lots	gm.	.79 -	—
Acetate, bots.	gm.	.70 -	—
Procaine hydrochloride, USP, dms., frt. alld	lb.	3.10 -	3.40
Propane, commercial grade tanks, group 3	gal.	.04 -	—
Propyl acetate, normal, dms., c.l., dlvd.	lb.	.12¾ -	—
l.c.l., dlvd.	lb.	.13¾ -	—
tanks, dlvd	lb.	.10¾ -	—
Aldehyde (see Propionaldehyde),			
Gallate, dms., 100 to 2,000-lb. lots, works	lb.	3.90 -	4.40
Parahydroxybenzoate, USP, dms	lb.	2.30 -	2.40
Propylene dichloride, dms., c.l., dlvd. E	lb.	.0845-	.093
l.c.l., same basis	lb.	.0950-	.1050
tanks same basis	lb.	.07 -	.08
Oxide, dms., c.l., dlvd. E	lb.	.19½ -	.20½
l.c.l., dlvd E	lb.	.20½ -	.21½
tanks, dlvd E	lb.	.17½ -	.18½
Propyleneglycol, industrial, dms., c.l., dlvd. E	lb.	.19¼ -	.21¼
l.c.l., same basis	lb.	.20¼ -	.22¼
tanks, same basis	lb.	.17½ -	.18½
USP, dms., c.l., dlvd. E	lb.	.20¼ -	.21¼
l.c.l., same basis	lb.	.21¼ -	.22¼
tanks, same basis	lb.	.18½ -	.19½
Methylether, dms., c.l., dlvd. E	lb.	.20 -	—
l.c.l., same basis	lb.	.21 -	—
tanks, same basis	lb.	.18½ -	—
Propylthiouracil, bots., 50-kilo lots or more	kilo.	55.00	—
smaller lots	kilo	35.10 -	55.30
Psyllium seed, black, bgs	lb.	.26 -	.27
blonde, bgs	lb.	.16 -	.17
husks, bgs	lb.	.42 -	.44
Pumice, dom. grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots	lb.	.03½ -	.04¼
smaller, lots	lb.	.03¾	.04½
Pumice, imported, Italian, silk-screen, coarse, bags, ton lots	lb.	.06½ -	—
fine, bgs. ton lots	lb.	.04	—
sun dried coarse, bgs ton lots	lb.	.02¼	.04
fine, bgs. ton lots	lb	.02½	.04
Pumice in bbls is ½c per lb higher			
Pumpkin seed, bgs	lb.	.25 -	.26
Pyrethrin, synthetic (see Allethrin),			
Pyrethrum flowers, fine grd. 0.9% pyrethrins, bbls works	lb.	.50 -	—
powder 1.3% pyrethrins, bbls., works	lb.	.71½ -	—
liquid (20 to 1) basis 2 grams pyrethrins per 100cc, odorless base, 50 dms., works	gal.	9.20 -	—
one to 4 dms., works	gal.	9.40 -	—
(30 to 1) basis 3 grams pyrethrins per 100 cc odorless base, bbls. works	gal.	15.75 -	—
oleoresin, dewaxed, 20%, for aerosol bombs, dms., works	lb.	11.00	-12.00
Pyridin, denaturing, dms., c.l., works and frt equald	gal.	2.77 -	—
l.c.l., same basis	gal	2.80 -	—
refd., 2 non ref dms., l.c.l. same basis	lb.	1.15	—
Pyridoxine hydrochloride, bots., 100-gm. lots	gm.	.53 -	—
Pyrites, Canadian, works long ton.		3.00	3.60
Pyrocatechol (see Catechol)			
Pyrogallol NF	lb	3.25	3.43
Pyrophyllite, insecticide grade 200 mesh bgs c.l. mines	ton	13.00	-13.50
No. 3, 200 mesh bulk c.l. mines	ton	11.00	—
rubber grade 140 mesh bgs. c.l. mines	ton	11.50	-12.00
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines	ton.	12.50 -	—
200 mesh, bulk, c.l., mines	ton.	13.50	—
325 mesh, bulk c.l., mines	ton.	16.75	—
Standard and No. 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra			
Pyroxlin scrap, amber, dms., works	lb.	.15 -	—
black, dms., works	lb	13	—
mixed, mottled, dms., works	lb.	.11 -	—
white, china, ivory, dms., works	lb	.12	.15
dense, opaque, dms., works	lb.	.12 -	.15
translucent pastels, cs., works	lb.	.14	—
transparent colorless, dms, works	lb.	.25 -	—
colors dms., works	lb.	14	—
shavings, amber, cs., works	lb.	.11 -	—
mixed colors, dms., works	lb	.11 -	—

Q

Quassia chips	lb.	.17 -	—
Quebracho extract, clarified, grd., 70% tannin bgs. c.l.,	lb.	.16¼ -	.16¾
liquid, 35% tannin, bbls., works, tanks, same basis	lb.	.08¼ -	—
solid, clari., 64% tannin, bgs., c.l., exdock, duty extra	lb.	.12½ -	—
ordinary, 63% tannin bgs., c.l. same basis	lb	.11 31 64	—
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.			
Quercitron extract crystals, No. 1, bbls l.c.l.	lb	40 -	—
liquid No. 1, bbls l.c.l.	lb	18 -	—
Quicksilver flasks (76 lbs net)	flask.	184.00	-186.00
Quinceseed, bgs.	lb.	1.50	Nom.
Quinidine NF V cryst. cns., 100-oz. lots	oz.	1.15 -	—
powd. precip. cns. 100-oz lots	oz.	1.17 -	—
Sulphate USP cns. 100-oz lots	oz.	.87 -	—
Quinine, NF cns. 100-oz. lots	oz.	.54 -	—
Bisulphate USP cns. 100-oz. lots	oz.	.37½	—
Dihydrochloride USP cns	oz.	.54	—
Ethylcarbonate, NF, cns., 100-oz. lots	oz.	.63½ -	—
Hydrobromide NF cns. 50-oz cns.	oz.	.47½ -	—
Hydrochloride USP cns. 100-oz. lots	oz.	47½	—
Phosphate NF cns. 100-oz lots	oz.	.61 -	—
Salicylate NF cns. 100-oz. lots	oz.	.55 -	—
Sulphate USP cns. 100-oz. lots	oz.	.42 -	—
Quinine and Urea hydrochloride NF, cns	oz.	.56 -	—
Quinolin, dms., c.l., frt. equald	lb	.50¾	—
l.c.l. same basis	lb.	51¼	—
tanks, same basis	lb.	.50 -	—

R

R salt, paste, 100% basis, dms., frt alld	lb	.83 -	—
powd., basis 100%, frt. alld	lb.	.88 -	.93

Soap quality and grade consistency depend so much on the uniformity of your raw materials, it's good to have a source of supply in which you have complete confidence. That's why so many manufacturers are depending regularly on *International* for *Caustic Potash*. You'll find that *International Caustic Potash* is virtually free of impurities, consistently low in iron, copper and nickel. So for your requirements of Caustic Potash for the production of soap or other products, call *International* and be sure.

CAUSTIC POTASH—*all standard grades*

CARBONATE OF POTASH—*all standard grades*

POTASSIUM CHLORIDE—*refined and technical grades*

SULFATE OF POTASH • LIQUID CHLORINE

FERRIC CHLORIDE • HYDROCHLORIC ACID

FOR SOAP MAKING

Special low iron grade—45-50%. Available in 675 lb. drums and tank cars.

GENERAL CHEMICAL USE

SOLID—90%. Available in 700 lb. drums.

FLAKE—90%. Available in 100, 200 & 400 lb. drums.

GRANULAR (BROKEN)—90%. Available in 100, 210 & 425 lb. drums.

LIQUID—Iron free, a clear water-white solution of 45%. Available in tank cars and 675 lb. drums.

LIQUID—Special low chloride, iron-free grade—45%.

AMERICAN SELECTED WALNUT—Available in 100, 210 & 425 lb. drums.

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

Address all inquiries to Industrial Sales Dept., Potash Division • General Offices: 20 North Wacker Drive, Chicago 6 • 61 Broadway, New York 6
Midland, Texas

Red, BON Acid Maroons—Sodium Antimoniate

Red, BON acid maroons, pure, bbls., lb. 1.75 - —
resinated, bbls lb 1.50 - —
arylid, deep shades, bbls lb 3.60 - —
light shades, bbls lb 2.75 - —
maroon, bbls lb 3.60 - 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb 4.30 - —
light shade, same basis lb 4.00 - —
medium shade, bbls., same basis lb 4.25 - —
medium light shade, bbls., same basis lb 4.05 - —
orange shade, bbls., same basis lb NP - —
lithopone, deep shade, bbls., same basis lb. 1.93 - —
light shade, bbls., same basis lb. 1.70 - —
maroon shade, bbls. same basis lb. 2.05 - —
medium shade, bbls. same basis lb 1.85 - —
medium-light shade, bbls., same basis lb. 1.77 - —
orange-red shade, bbls. same basis lb 1.64 - —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb higher; all prices are 1c per lb higher ex whse Los Angeles and San Francisco.

Carmine No 40 (see Carmine).
Dyes (see Dyes coaltar)
Eosin toner, bbls., works lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .12¾- —
Red, iron oxide, pure, 98% ferric oxide, bgs., c.l., works lb. .12¾- —
l.c.l., works lb. .13 - —
natural, 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton Pa.; E. St. Louis lb. .06 - —
Lake C, toner, alizarin bbls., works lb. 1.10 - 1.20
Lithol, toner, bbls., works lb. .79 - —
rubine toner pure, bbls., works lb 1.50 - —
resinated bbls., works lb 1.40 - —
Virginia-type, bbls. works lb 1.40 - —
Maroon toner, MNPT, kgs., works. lb. 3.60 - —
10,000-lb. lots, works lb. 4.22 - —
smaller lots, works lb. 4.24 - —
Metallic bbls., c.l., works lb. .02½- —
l.c.l works lb. .02¾- —
Oxide (see Red iron oxide).
Persian gulf bgs. c.l., works lb. .06¾- —
l.c.l. works lb. .07 - —
Para toner, bbls lb. .95 - —
Chlorinated kgs lb 1.10 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb 5.35 - —
tungstated, PTMA works, kegs. lb. 6.35 - —
Spanish, oxide, bbls., c.l., ex dock lb. .05¾- —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½- —
Toluidin toner, deep shades, kgs., works lb. 1.50 - —
light shades, kgs., works lb. 1.50 - —
Turkey, bbls., works lb. .60 - —
Tuscan, bbls., frt. equald lb. .24½- .25
Red, Venetian, 15%, bgs, works lb. .0350- .037
20%, bgs., works lb. .0475- —
25%, bgs., works lb. .0525- —
30%, bgs., works lb. .0550- —
35%, bgs., works lb. .0575- —
40%, bgs., works lb. .0625- —
Vermilion, Amer., bbls lb .32 - —
Quicksilver, ctns. lb 3.52 - —
Watchung-type, bbls. lb. 1.95 - —
Red KB base (see Chloro (4-2-amino-toluene).
Red precipitate, NF, powd., fib dms lb. 4.37 - 4.41
Red saunders, NF, powd., bbls lb. .35 - .40
Rennin, NF, powder lb. 6.25 - —
Resorcinol, tech. grade, dms., c.l., works lb. .77½- —
l.c.l., works lb. .78½- —
USP, cryst., dms., works lb 2.75 - —
powd., dms., works lb 2.95 - —
Monoacetate, NF, dms. lb. 3.25 - 3.45
Rhatany root, bgs lb. .15 - .16
Rhodinol, 5-lb. cans lb.25.00 -56.00
Rhubarb root, China, whole, cs. lb. .75 - .85
powd., bbls. lb. .90 - .95
India, whole, bgs. lb. .35 - .40
powdered, bbls. lb. .43 - .45
Riboflavin, USP bots., dlvd kilo.100.00 - —
readily soluble, bots. dlvd kilo.100.00 - —
Rice bran, concentrate, dms. Cedartown, Ga lb. .79 - —
Rochelle salt, USP, gran., powd., dms., c.l. lb. .32½- —
5,000-lb. lots, dms., c.l. lb. .32½- —
smaller lots lb. .33½- .38½
Rosin, gum and wood (see Naval Stores, Protective Coatings market)
Rotenone, CP, bbls., works lb 20.00 - —
tech. bbls. works lb 16.50 - —
Rottenstone, bgs., 5 ton lots, exwhse. lb. .03 - —
ton lots, same basis lb. .04 - —
Rutin, NF, fib. dms., 25-kilo lots, kilo.25.00 - —
10 to 25-kilo lots, fib. dms. kilo.25.00 -30.00
1 to 10-kilo lots fib dms kilo 30.00 - —
Ryania, 100%, powd., bgs., works lb. .20 - —

S

Sabadilla seed, powd., bbls. lb. .49 - .49¼
activated, ground with lime, bbls lb. .35 - .36
Saccharin, USP, gran., soluble, dms., 1000-lb lots lb 1.60 - —
smaller lots lb 1.70 - 1.80
powd., soluble, insoluble, dms., 1000-lb lots lb 1.65 - —
smaller lots lb 1.75 - 1.95
Saffron, Spanish, USP, tins lb.25.00 - —
Safrol, dms lb. .72 - 1.20
Sage, Cretan, bgs. lb. .11 - —
Dalmatian, bgs. lb. .45 - —
Italian, bgs. lb. .16 - .17
Sago flour, raw, bgs. lb. .07¼- .07½
refined, bgs lb. .08¾- .09¼
Sal soda (see Soda sal).
Powdered salol, 25c higher.
Salol, NF, gran., bbls., kgs. lb. 1.10 - —
Salt, rock, paper bgs., c.l. 100 lbs. .98 - —
Table, vacuum, common, fine, paper bgs., c.l 100 lbs. 1.12 - —
Saltcake, dom., bulk, works, basis 100% Na_2SO_4 ton.19.00 - —
Saltpeter, cryst., bbls., 10-ton lots, 100 lbs 14.40 - —
smaller lots 100 lbs 14.65 -14.90
powd., bbls., 20-ton lots 100 lbs 10.75 - —
smaller lots 100 lbs 12.00 -12.50
gran., bbls., 20-ton lots, 100 lbs. 9.75 - —
smaller lots 100 lbs 11.10 -11.50
NF, gran., dms lb. .09¾- .11¾

Saltpeter in bags, 50c. per 100 lbs. less; in kegs, $1 more.

Sandalwood chips, East Indies, bgs., lb. .65 - .66
powd., dms lb. .75 - .76
Sanguinarine nitrate, bots oz. 4.75 - 5.50
Santonin, NF, dom., cryst., powd., dms., cns lb 76.50 -80.00
imported, cryst., powd., cns lb.76.50 -80.00
Saponin, No. 1, 100-lb. dms. lb. 2.75 - —
Sarsaparilla root, dom., bls lb .45 - .50
imported, Honduras, bls. lb. .38 - .40
Mexican, bls lb. .28 - .29
Sassafras root bark, ord., bls. lb. .45 - —
select, bls lb. .60 - —
Schaeffer's salt, paste dms., frt. alld., basis 100% lb. .85 - .95
powder, bgs., frt. alld lb. .95 - —
Scopolamine hydrobromide, USP, bots oz.13.00 -14.50
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½- —
smaller lots lb .31 .32
Selenium, powd., dms., dlvd lb 4.25 - 4.75
Senega root, bls lb. 2.30 - 2.40
Serpentaria root, bls lb. 4.85 - 5.00
Sesame seed, Nicaragua, hulled, bgs. lb. .24 - —
natural, bgs. lb. .15½ Nom.
Salvadorian lb. .14 - .14½
Shellac, bleached bonedry, bgs., 1,500-lb. lots lb. .49 - —
bbls., 1,500-lb. lots lb. .50 - —
kgs., 1,500-lb. lots lb. .52 - —
refined, bgs., 1,500-lb. lots lb. .59 - —
bbls., 1,500-lb. lots lb. .60 - —
kgs., 1,500-lb. lots lb. .62 - —

Bonedry shellac prices for less than 1,500-lb lots 1c per lb higher for all packages.

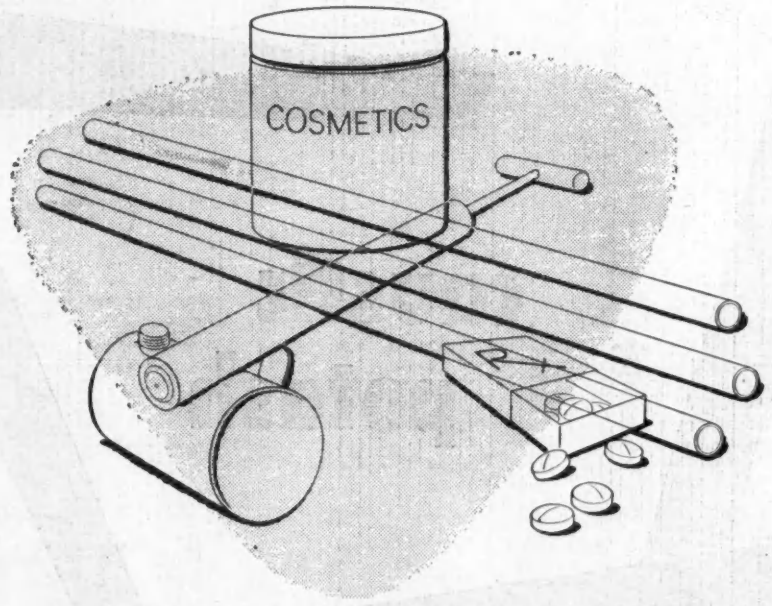
Lemon No. 1, bgs., 10-bg. lots lb. .40 - —
No. 2, bgs., 10-bg. lots lb. .39 - —
Superfine, bgs., 10-bg. lots lb. .36 - .38
TN, bgs., 10-bg. lots lb. .34 - .35

Shellac in 1 to 9 bg. lots, 1c. more

Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh bgs., c.l., works ton.25.00 - —
l.c.l., works ton.30.00 -40.00
hard-quartz, 99½, 325 mesh, bgs., c.l., works ton 20.00 - —
l.c.l., works ton.25.00 -30.00
140 mesh, bgs., c.l., works ton.15.00 - —
l.c.l., works ton.20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 - .28½
Silver bullion, ingots, cs lb. .85¼- —
Cyanide, fib dms., 2,500-oz. lots oz. .77⅞- —
1,000-oz. lots oz. .77⅞- —
500-oz. lots oz. .77⅞- —
100-oz. lots oz. .78¼- —
Nitrate, CP, crystals, bots., 2,500-oz. lots oz. .54¾- —
1,000-oz. lots oz. .55 - —
500-oz. lots oz. .56½- —
250-oz. lots oz. .57 - —

USP granular silver nitrate, 4c. per oz. higher.

Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz 1.00 - —
Skullcap herb, Eastern, bls lb. .50 - .65
Western, bls lb .30 .35
Slate flour, bgs., c.l., works ton 9.55 -13.00
l.c.l., ex whse ton.21.00 -27.35
Smalt, black, ctns lb. .15 - —
Blue ctns lb. .18 - —
Soapbark, bls. lb. .24 - .25
crushed, bls., bbls lb. .30 - .31
powd., bbls. lb. .33 - .34
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., stock points 100 lbs. 2.85 - 4.62
bbls., c.l., works 100 lbs. 2.30 - —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.45 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
l.c.l. stock points 100 lbs. 2.75 - 4.52
bbls., c.l., works 100 lbs. 2.20 - —
l.c.l. stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.35 - —
Soda, caustic, flake, powd., 76%, dms., c.l., works, frt. equald. 100 lbs. 4.10 - —
l.c.l., stock points 100 lbs. 5.30 - —
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.55 - —
rayon-type tanks works, dry basis 100 lbs. 2.65 - —
70% sellers' tanks, works, dry basis 100 lbs. 2.65 - —
rayon type, tanks, works, dry basis 100 lbs. 2.75 - —
solid, 76%, dms., c.l., works 100 lbs. 3.70 - —
l.c.l., stock points 100 lbs. 4.90 - —
Sal, bgs., c.l., works 100 lbs. 1.40 - —
l.c.l. works 100 lbs. 1.70 - —
Soda-lime, USP, dms lb. .23 - .25
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
l.c.l., dms lb. .12¾- —
NF, gran., dms., works lb. .12½- .16½
Alginate, refined, bbls., works lb. .83 - —
NF, white, powd., dms., ton lots, works lb. .87 - 1.30
Antimoniate, bbls., c.l., dlvd. E lb. .27½- —
l.c.l., dlvd. E lb. .29 - —



whatever you make, don't overlook sodium

Pictured above are a few of many useful end products processed with sodium. Listed below are typical applications of this versatile chemical that may suggest ways you can increase the yield or speed of *your* particular process, or the quality of *your* product.

Today you will find sodium being used more and more in the manufacture of:

- Metals . . . for sodium hydride descaling of stainless steels and titanium.
- Insecticides . . . in the production of parathion and allethrin.
- Cosmetics . . . in the production of saturated and unsaturated fatty alcohols for emollients, emulsifiers, etc.
- Pharmaceuticals . . . for manufacturing sulfa drugs, barbiturates and vitamins.

Whatever you do, don't overlook the possibility of using sodium. As a reducing agent, for dehydrating, polymerizing, decolorizing, deodorizing, condensing and dehalogenating.

Our new Fact Sheet on organic and inorganic reactions is now ready. The coupon below is for your convenience.

ETHYL CORPORATION
Chemicals for industry & agriculture
100 PARK AVENUE, NEW YORK 17, N. Y.
ATLANTA, BATON ROUGE, CHICAGO, DALLAS, DAYTON, DENVER, DETROIT, HOUSTON, KANSAS CITY, LOS ANGELES, NEW ORLEANS, PHILADELPHIA, PITTSBURGH, SALT LAKE CITY, SAN FRANCISCO, SEATTLE, TULSA, MEXICO CITY AND (ETHYL ANTIKNOCK, LTD.) TORONTO.

ETHYL SODIUM METALLIC ETHYL CORPORATION

ETHYL CORPORATION
100 Park Avenue, New York 17, N.Y.
Please send your new Fact Sheet on the "Chemistry and Uses of Sodium."
NAME
FIRM
ADDRESS
CITY STATE
OPDR 11-23-53

Sodium arsenate, dms., c.l., works. lb. .12½- —
t.c.l., dms., works ..... lb. .13¾- .14¼
Arsenite, dms., c.l., works.... lb. .13½- —
t.c.l., dms., works ..... lb. .14¼- .15¼
solution, dms., works ..... gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo.21.00 - —
10-kilo lots..... kilo.21.35 - —
5-kilo lots..... kilo.21.75 - —
1-kilo lots..... kilo.22.00 - —
500-gram lots, bots..... kilo.22.50 - —
Benzoate, tech., bbls., dms., 100-lb. lots or more lb. .39 - —
USP, bbls., dms. 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
t.c.l., works..... 100 lbs. 3.70 - —
powd., bgs., c.l., works 100 lbs. 2.30 - —
t.c.l., works..... 100 lbs. 3.30 - —
Bichromate, bgs., c.l., works.. lb. .11½- —
t.c.l., same basis..... lb. .12 - .13¼
Bifluoride bbls. c.l., works, frt. equald.. lb. .17½- —
t.c.l., same basis..... lb. .1790- —
Bisulphate, bulk, c.l., works 100 lbs. 2.00 - —
dms., c.l., works..... 100 lbs. 2.65 - 3.85
t.c.l., works..... 100 lbs. 3.05 - 3.65
Bisulphite anhyd. bgs.,c.l. works. 100 lbs. 4.50 - —
t.c.l., works..... 100 lbs. 4.90 - —
solut. 35° bbls., c.l., works 100 lbs 1.40 - —
t.c.l., works..... 100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works. lb. .34 - .35
Cacodylate, NF, dms., frs..... lb 8.52 - —
Carbonate, anhydrous (see Soda ash).
crystalline decahydrated (see Soda sal).
monohydrated bgs., c.l., works 100 lbs. 2.90 - —
t.c.l., works..... 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works. lb. .08¾- —
t.c.l., works..... lb. .10¼- .11
Chloride, tech. (see Salt).
USP, dms. ..... lb. .05 .12
Chlorite tech. dms., works lb. .58 .73
Chloroacetate, tech., dms., c.l., works. lb. .24 - —
t.c.l. works ..... lb. .25 .26
Chromate, dms., c.l., works... lb. .13¼- —
t.c.l., same basis ..... lb. .13¾- .15
Citrate, anhyd., dms ..... lb. .60 - .65
USP VIII gran. dms. ..... lb. .26 - .30½
USP XIV gran., dms. ..... lb. .29½- .34

Sodium citrate USP powd. prices ½c. higher.

Cyanate, dms., 1,000-lb. lots, works lb. .85 1.10
smaller lots, works lb. 1.00 1.25
Cyanide, flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .178 - —
over 1,000-lb. lots ..... lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —

Granular sodium cyanide 1c. higher.

Diacetate, 33-35% acidity, 250 lb. dms., works lb 14 —
t.c.l. ..... lb. .14¾- —
anhydrous, dms., c.l., works lb 17 —
t.c.l lb .17¾ —
Fluoride, white, 97%, bbls., c.l., works lb. .1250- —
t.c.l., works lb. .1290- —
Fluoracetate, monobasic, 8-oz. tins, 50 to a case, works lb.12.00 - —
2 to 25 tins to case works lb.12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb.16.50 -21.00
Formate, bgs., c.l., dlvd. E .. 100 lbs. 7.60 - —
t.c.l., works ..... 100 lbs 8.65 - —
Gentisate, 100-lb lib dms .. lb 8.50 - —
Gluconate, technical, bgs. ... lb. .35 - —
refined, dms. ..... lb. .80 - .83
Glutamate, monobasic, dms., c.l. lb. 1.70 - —
Glycerophosphate, NF, cryst., bbls lb. 2.10 - 2.25
powder, bbls ..... lb. 2.15 - 2.30
solution, 75%, cbys..... lb. 1.45 - 1.60
Hydride, dms., works ..... lb. 2.00 - 3.00
Hydrosulphide (see Sodium sulphydrate)
Hydrosulphite, dms., c.l., frt. alld lb. .23 - —
t.c.l., frt. alld. ..... lb. .23½- —
Hydroxide, tech. see Soda caustic)
NF, pellets, 100-lb dms., 1 to 100-dm. lots lb. .18½- .23
Hypophosphite, NF, dms., ton-lots, or less lb. .95 - .98
Hyposulphite, photo grade, bgs., c.l., works 100 lbs. 4.50 - 4.75
t.c.l., same basis.... 100 lbs. 5.00 - 5.05
pea crystals, bgs..... 100 lbs. 4.50 - —
gran., bgs., c.l., works. 100 lbs. 4.75 - 5.00
tech., bgs., c.l., works 100 lbs. 4.50 - —
t.c.l., works..... 100 lbs. 4.90 - 6.90

Sodium hyposulphite crystals in bbls. 50c. higher.

NF (see Sodium thiosulphate).

Iodide, USP, bots., dms lb. 2.80 - 2.92
Lactate, edible, 50%, dms., cbys., works. lb. .21½- —
50% dms cbys. works lb. .26½ —
tech. 50% dms. cbys. works, lb 16¼ —
Laurylsulphate, dms., c.l., dlvd. lb. .24 - —
t.c.l. dlvd ..... lb .25 - —
tanks dlvd lb .23 - —
Metabisulphite (see sodium bisulphite).
Metaborate, octahydrate, gran., bgs., c.l., works ton.78.50 - —
t.c.l., ex whse ..... ton.124.50 -129 50

Sodium metaborate, octahydrate in bbls., $24.50 per ton higher

tetrahydrate c.l., bbls., works. ton 122 50 —
Metallic bricks, bbls., works lb. .17 - .19
tanks, works ..... lb. .16 - —
Metantimonate bbls. frt alld lb .62 —
Metasilicate, anhyd., bgs., c.l., works 100 lbs 4.85 - 5.00
t.c.l., works ..... 100 lbs. 5.10 - 5.50
dms., c.l. ..... 100 lbs. 5.25 - 5.30
t.c.l. ..... 100 lbs 5.50 - 5.75
Molybdate crystals bbls works lb 75 85
powd., anhy., dms., works lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton.47.00 - —
bulk, c.l., works ..... ton.43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ... ton.53.00 - —
bulk, c.l., same basis ton.49.50 - —
Nitrite, USP bbls., c.l., works, frt. equald lb. .0775- —
t.c.l., same basis ..... lb. .0925- .18
Orthosilicate, anhyd., dms., c.l., works 100 lbs 5.85 - —
t.c.l., works ..... 100 lbs 7 60 —
hydrated flake bbls. c.l. works 100 lbs 4 75 —
t.c.l., works 100 lbs 5.50 —
Oxalate, 88%, bgs., works .. 100 lbs.10.85 - —

Sodium para-aminobenzoate, dms., 1,000-lb. lots or more..lb. 2.40 - —
smaller lots ..... lb. 2.45 - 2.50
Para-aminosalicylate, dms., 1,000-lb. lots, frt. adjusted.lb. 3.75 - —
smaller lots, same basis .. lb. 3.80 - 4.25
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald. lb. .25½- —
t.c.l., same basis lb. .26½- .28½
Pentachlorophenate, pellets, bgs., c.l., same basis lb. .25 - —
t.c.l., same basis ..... lb. .26 - .28
powdered, bgs., c.l., same basis. lb. .24 - —
t.c.l., same basis..... lb. .25 - .27

Pentachlorophenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices.

Pentahydrate, bgs., c.l., works. 100 lbs. 4.00 - —
t.c.l., bgs., works.. 100 lbs. 4.35 - 4.55
dms., c.l., works..... 100 lbs. 4.80 - —
t.c.l., works ..... 100 lbs. 5.15 - 5.65
Perborate, USP, tech., bbls., c.l., works lb. .193 - —
t.c.l. works lb. .198 - —
Peroxide, dms., c.l., dlvd., E. of Miss. lb. .1860- —
t.c.l., same basis lb. .1910- .2010
Phenolsulphonate, USP tx, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt., equald 100 lbs. 7.45 - —
t.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.05 - —
t.c.l., frt. equald.100 lbs. 7.25 - —
monobasic, anhyd., bgs., c.l., frt equald. 100 lbs. 8.45 - —
t.c.l., frt. equald .100 lbs. 8.90 - —

Sodium phosphate, tribasic, cryst., bgs., c.l., frt. equald.. 100 lbs. 4.20 - —
t.c.l., frt. equald 100 lbs. 4.60 - —

Sodium phosphates in dms., 60c. higher than bgs.

Prussiate, yellow, bgs., 10-ton lots lb. .13½- —
smaller lots ..... lb. .14 - —
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs.10.75 - —
ferric, dms., 1,500-lb. lots, works lb. .31 - —
smaller lots, works..... lb. .32 - —
tetrabasic, anhy., bgs., c.l., works frt equald 100 lbs. 7.90 - —
t.c.l., frt equald 100 lbs. 8.10 - —
Salicylate, USP, dms ..... lb. .68 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
t.c.l., dlvd., zone 1... 100 lbs 3.85 4.10
zone 2 ..... 100 lbs. 4.10 - 4.35
zone 3 ..... 100 lbs. 4.40 - 4.65
zone 4 ..... 100 lbs. 5.10 - 5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss. south of 31° Tex E. of 100°; S of 31° Fla., also Me. N. H., and Vt., in which there are special county zones; Davenport, Ia and St Louis; (2) Ark. E of 98° Ga.; Iowa (except Davenport) Minn., Mo (except St Louis) Neb., E. of 98° N C. S. C., Tenn and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala. La and Miss No of 31°; (3) Ark. W of 96° Kan. Neb W of 96°; N. D. Okla. S D., Tex. W of 100° (including Wichita Falls excluding El Paso); (4) Ariz. Colo., Idaho Mont., Nev., N. M., Utah Wyo. and El Paso Tex.

Sodium sesquisilicate, hydrated, dms., c.l., works 100 lbs. 5.50 - —
t.c.l., works 100 lbs 7.00 —
hydrated, bgs., c.l works 100 lbs. 4.70 —
t.c.l., bgs., works 100 lbs. 5.25 6.00
Silicate, liquid, 40° 1:3.2, turbid, dms., c.l., works. 100 lbs. 1.35 - —
t.c.l., works 100 lbs. 1.70 - 4.30
tanks, works 100 lbs. 1.00 - —
47°, turbid, 1:2.9, dms., c.l., works 100 lbs. 1.95 - —
t.c.l., bms., works. 100 lbs. 2.55 - 2.80
tanks, works 100 lbs. 1.60 - —
52°, turbid, 1:2.4, dms., c.l., works..100 lbs. 2.30 - —
t.c.l., works 100 lbs 2.75 3.00
tanks, works 100 lbs. 1.95 - —
solid, 1:3.2, bgs works ton 57 50 - —
Silicofluoride, bgs., c.l., works lb. .07 - —
t.c.l., works ..... lb. .07 - .08
Sodium silicofluoride in dms., 4 10c. higher
Stannate dms., works, frt alld. E. lb. .470 - .524
Stearate, tech., dms., works lb. .40 —
USP dms works lb. 70 75
Sulphanilate, bbls. works lb. .22 —
Sulphate, NF VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. alld. to $10. 100 lbs. 2.25 - —
t.c.l. works same basis. 100 lbs 2.50 3.00
rayon grade, bgs., c.l., works. ton.27.00 - —
t.c.l. works .... ton 33.00 —
USP, cryst., fib dms ..... lb. .17½ .18
gran., fib. dms ..... lb. .17½- .18

What can the Diazonium Reaction do for you?

Diazo compounds—created through the use of acidified Sodium Nitrite, U.S.P.—have found many important uses in American industry. Major producers of dyestuffs, rubber chemicals and other complex organic compounds rely on the high quality of Solvay Sodium Nitrite U.S.P. to provide a readily available source of nitrous acid for the diazotization.

If you are interested in diazo compounds, and would like to experiment with a sample of Solvay Sodium Nitrite U.S.P. . . . fill in and mail the coupon today. There will be no obligation.

Physical and Chemical Properties of Solvay Sodium Nitrite

Molecular Weight: 69.01.

Solubility in Water: 20% at −12°C., 39% at −26°C. (eutectic). 50% at 42°C., 60% at 90°C. Slightly soluble in alcohols, very soluble in anhydrous ammonia.

Negative heat of solution.

Melting point 271°C., decomposes at 320°C.

Appearance: Crystalline, slight yellow cast, almost 100% will pass through a No. 20 screen.

Reactions: Can be either a reducing or oxidizing agent. Provides nitrous acid for azo reaction.

Quality: Better than 99% $NaNO_2$, very low in metallic impurities.

SOLVAY
SODIUM NITRITE
U.S.P.

SOLVAY PROCESS DIVISION
Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

Will you please forward a sample of Solvay U.S.P. Sodium Nitrite. It is understood that there is no charge or obligation.

Name_____
Company_____
Address_____
City_____ Zone___ State_____

FC-11

Sodium Sulphide—Talc, Vermont Off Color

Sodium sulphide, flake, dms., c.l., works, E., frt. equald..lb. .05¼- —
t.c.l., same basis ..lb. .05¾ —
fused, bbls., c.l., works, E., frt. equald lb. .04¾ —
t.c.l., same basis lb .05¼ —
Sulphite, anhyd., bgs., c.l., works. 100 lbs. 3.00 - —
t.c.l. same basis 100 lbs 3.50 - —
powder bbls. c.l., works 100 lbs 7.25 - —
t.c.l., works 100 lbs 7.50 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphydrate, flake, 70-72%, dms., works, c.l lb. .06½- —
t.c.l., works lb. .07 - —
liquid, 40-44%, tanks, works, basis 100% ton.110.00 - —
Tetraborate (see Borax.)
Tetrasulphide liquid, 40%, dms., c.l., works lb. .03½- —
t.c.l., works lb .04 —
Thiocyanate, CP dms lb 55 .65
tech., dms., works lb. .377 - —
Thiosulphate, NF cryst. bbls lb. .12½ —
tech (see Sodium hyposulphite).
Titanate ctns c.l. works lb 10½ —
5-ton lots, works lb. .10¾ - —
1 ton or less, works lb. .11 - —
Trichloroacetate, 98% 100-lb. dms., c.l., frt. alld., E lb. .37½- —
t.c.l., frt. adjusted, E lb. .39½- —
50-lb. dms., c.l., frt. alld., E. lb. .38 - —
t.c.l., frt. adjusted, E lb. .40 - —
90%, 10-lb. cns., c.l., frt. alld., E lb. .44 - —
t.c.l., frt. adjusted, E lb. .46 - —
Prices West of the Rockies are 1¾c per pound higher

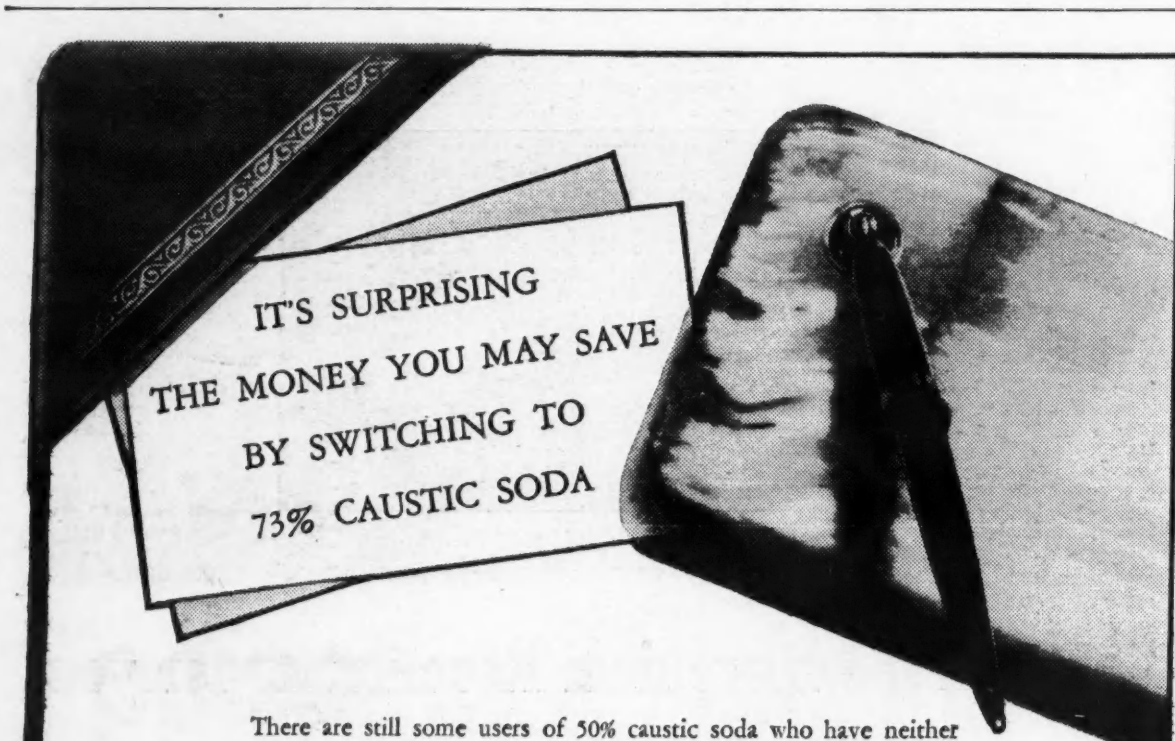
Sodium tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 8.25 - —
t.c.l., same basis .... 100 lbs. 8.45 - —
Trisilicate, powd., 1:3.2, bgs., c.l., works..100 lbs. 7.75 - —
t.c.l., works .... 100 lbs 8.50 8.90
dms., c.l., works.... 100 lbs 8.15 - —
t.c.l., works .....100 lbs. 8.90 9.30
Tristearate, fib. dms., 20-000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works lb .36 .40
Tungstate, tech., kgs., dlvd. E..lb. 2.65 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb .23 - —
Sodium-carboxymethylcellulose See CMC.
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulphoxylate, dms., c.l., dlvd lb. .23½- —
t.c.l., same basis..... lb. .24 - —
Sodium sulpha, drugs (see Sulpha names).
Sodium-zirconyl sulphate, fiber dms., 1,000-lb. lots or more works lb. .28 - —
less than 1,000-lb lots, same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high-flash, tanks, works gal. .31 - .32
petroleum (see petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works..lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works .....lb. .37 - .39

Sorbitol, cryst., pellets, dms., c.l., works..lb. .30 - —
1 to 5-ton lots, works....lb. .32 - .33
powd., dms., 1 to 5-ton lots, works..lb. .38 - .39
solution, commercial, aqueous, dms., c.l., works..lb. .24½- —
ton lots, works lb. .25 - —
smaller lots, works..lb. .25¼- —
tanks, works lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works..lb. .16 - —
ton lots, works ..lb. .16¾- —
smaller lots, works..lb. .17 - —
tanks, works .....lb. .15 - —
Soybean meal, 44%, bulk, Decatur, ton.63.00 - —
protein, chemically isolated, 40,000 to 60,000-lb. lots, dlvd, lb. .23 - —
20,000 to 40,000-lb. lots, same basis..lb. .23¼- —
100 to 20,000-lb. lots, same basis..lb. .23½- —
mechanically refined, bgs., 40,000-lb. lots same basis, lb. .0605- —
20,000-lb. lots, same basis...lb. .0620- —
smaller lots, same basis, lb. .0635- —
Sparteine sulphate, cns..... oz. .85 1.25
Spearmint leaves, bls.....lb. .75 - —
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd., super, bgs., c.l., works, lb. .07 - —
t.c.l., works ..... lb. .05¾- —
Squill, red, fortified, powd., bbls., boxes lb 1.60 - —
white, bls. ..... lb. .12 - .15
powd., bbls., bxs..... lb. .18 - .21
St John's bread, edible, bls.....lb. .13 - .15
Stannous chloride (see Tin chloride stannous)

Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., works 100 lbs. 7.14 - —
t.c.l. .....100 lbs. 7.29 - —
powd., paper bgs., c.l. 100 lbs. 7.26 - —
t.c.l. .....100 lbs. 7.32 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.
Potato, dom., Idaho, bgs., c.l., works..lb. .07¼- —
Maine, bgs., c.l., works....lb. .068 - —
t.c.l., spot .....lb. .08½- .09
Rice, t.c.l., bgs .....lb. .16 - .17
Wheat, bgs. .....lb. .0755- .0780
Stavesacre seed, bgs .....lb. .60 - .61
Stearine oleo (see Oleostearine.)
Stomach substance, not USP, fld. dms lb. 2.95 - 3.10
Storax, USP, cs .....lb. .85 - 2.05
Stramonium leaves, bgs.....lb. .19 - 24
Streptomycin hydrochloride, bulk, gm. .17 - —
Sulphate, bulk .....gm. .17 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, pure, dms., 5-ton lots or more, works..lb. .33 - —
1-ton lots, works.....lb. .37 - —
tech., dms., works.....lb. .19 - —
Chromate, bbls., works.....lb. .46 - —
Iodide, jars, 25-lb. lots.....lb. 3.42 - —
Nitrate, bbls., cs., works.....lb. .11 - .12
Oxalate, bbls., works .....lb. No prices.
Salicylate NF dms .....lb. 1.65 - —
Sulphate, air floated, 90%, 325 mesh bgs., works ton.56.70 -66.15
Strontium-calcium sulphide phosphorescent, dms., works lb 2.80 - 2.85
Strophanthin, NF, bots ..... oz.25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs..lb. 3.50 - 3.75
Strychnine, NF, powd., cans, 100-oz. lots oz. 1.10 - —
Phosphate, NF, 100-oz. lots ... oz. 1.14 - —
Sulphate, USP, powd., cans 100-oz. lots oz. .85 - —
Styrene monomer, dms., c.l., works lb. .23¼- —
t.c.l., works..... lb. .23¼- —
tanks, works ..... lb. .21 —
Styrolyl acetate, bots.....lb. 1.45 - 1.70
Sucrose octa-acetate, denaturing grd., 100-200-lb. bgs., t.c.l., works lb. .71 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms..... lb 4.00 4.50
Sodium, dms .....lb. 4.10 4.60
Sulphacetamide fiber dms ..... lb 4.00 4.20
Sodium, fib. dms .....lb. 5.00 5.20
Sulphadiazin, USP, microcrystals, dms lb.10.60 -11.10
powder, dms. .....lb..10.25 -10.75
Sulphadiazin-sodium, USP, dms lb.11.25 -11.75
micro crystals, dms ..... lb.10.60 -11.10
Sulphaguanidin, USP, dms.....lb. 2.50 - —
Sulphamerazin, USP, micro crystals. lb.10.65 -11.15
Sulphamerazin-sodium, USP, dms., lb.11.25 -11.75
Sulphamethazine, micro crystals, dms lb 8.90 9.40
powder, dms..... lb 8.50 9.00
Sulphanilamide, USP, 30-60 mesh., dms lb 1.40 1.60
microcrystals, dms. ..... lb. 1.70 - 1.90
powder, dms ..... lb. 1.30 1.50
Sulphanilamidoquinoxaline, veterinary, dms. lb. 6.50 - 6.75
Sulphapyridin, NF powd. bots. tins. lb. 7.00 - 7.50
Sulphapyridin-sodium monohydrate, dms lb. 7.50 - 8.00
Sulphathiazole, USP, micro crystals, dms lb. 3.15 - 3.30
powder, dms. ..... lb. 2.80 2.95
Sulphathiazole-sodium, USP, dms., lb. 3.05 - 3.20
Sulphur, commercial, flour, bgs., mines .100 lbs. 2.30 - —
bbls., mines .....100 lbs. 3.05 - —
lump, bgs., mines.....100 lbs. 2.20 - —
bbls., mines.....100 lbs. 2.65 - —
crude, bulk, c.l., mines, contract, long ton.25.50 -27.50
export, f.o.b. vessels, Gulf ports..long ton28.00 -30.50
domestic and Canada, f.o.b. vessel Gulf port long ton.27.50 -30.50
refined, flowers, USP, bgs., mines. 100 lbs. 4.00 - —
bbls. .....100 lbs. 5.25 - —
flour, light, bgs., mines..100 lbs. 3.60 - —
bbls., mines.....100 lbs. 4.50 - —
lump, bgs., mines..100 lbs. 3.30 - —
rolls, bgs., mines....100 lbs. 3.85 - —
bbls., mines .....100 lbs. 4.40 - —
salt block, bgs., mines.100 lbs. 3.35 - —
virgin block, bbls., mines. 100 lbs. 3.45 - —
rubbermarkers, com'l, regular bgs., mines..100 lbs. 2.40 - —
bbls., mines .....100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines .....100 lbs. 3.65 - —
refined, bgs., mines .100 lbs. 3.25 - —
bbls., mines .....100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines...100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Sulphur dichloride, dms., c.l., works, frt. equald..lb. .03¾- —
t.c.l., same basis ..... lb. .04½- —
tankcars, same basis..... lb. .03½- —
Dioxide liquid, com'l, cyls., works lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .045 —
refrigeration, cyls., c.l., dlvd . lb. .24 - —
Monochloride, 55-gal. dms., c.l., frt. equald..lb. .03¾- —
t.c.l., same basis.....lb. .04½- —
tanks, same basis.....lb. .03½- —
Washed, NF, bot.....lb. .11 - —
Sumac leaves, 28%, bgs., ex-dock, ton.120.00 - —
ground, ex-dock.....ton.120.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Malto unit-ton. .88 .91
Carteret, N. J.... unit-ton. .88 - .91
triple, 48% or more, a.p.a. pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

T

2,4,5-T, dms., cl., works ..... lb 1.40 - —
t.c.l., works .....lb. 1.45 1.50
isopropyl ester dms. c.l., works lb. 1.45 —
t.c.l., works .....lb. 1.50 - 1.57
Talc, dom., ordinary, Calif., grd., bgs., c.l., works ton.32.00 -33.50
Vermont off color grd., bgs., c.l., works ton 14.00 —
t.c.l. works.... ton 17.50 - —



There are still some users of 50% caustic soda who have neither switched to 73%, nor considered it, because they believe they are not set up to capitalize on its advantages.

However, with but few exceptions, substantial savings may await only the responsible person's decision to compare costs.

The amount of caustic soda you consume naturally influences the savings, but even small users may be able to save up to $1000 annually. Some large users save $35,000 per year and more. Your plant location also plays an important part in the amount of savings.

But it costs you nothing to find out now. Our technical staff will be glad to help you figure savings and to make recommendations. Call or write today!

DRY CAUSTIC USERS: Have you refigured your delivered costs of dry vs. liquid caustic soda in the light of recent increases? Many Columbia-Southern consumers are now realizing *substantial savings* by converting from flake to liquid. Initial cost of the installation required is low, usually paying for itself in savings within one year. Write us for details.

COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER, PITTSBURGH 22, PENNSYLVANIA

DISTRICT OFFICES: BOSTON • CHARLOTTE • CHICAGO • CINCINNATI • CLEVELAND • DALLAS • HOUSTON • MINNEAPOLIS • NEW ORLEANS • NEW YORK • PHILADELPHIA • PITTSBURGH • ST. LOUIS • SAN FRANCISCO

Talc, fibrous, New York, grd., bgs., c.l., works...ton.25.00 -30.00
l.c.l. ...ton.28.00 -35.00
99.5%, 325 mesh, bgs., c.l., works ton.27.00 - —
l.c.l., works ...ton.30.00 -32.00
99.95%, micronized, bgs., works, ton.36.00 - —
imp. Canadian, grd., bgs., c.l., mines...ton.15.25 -35.00
Tallow, edible, tanks, dlvd.....lb. .12¾ Nom.
inedible, extra, tanks, dlvd....lb. .06¼- —
fancy, bleachable, tanks, dlvd. lb. .06½- —
No. 1, tanks, dlvd.....lb. .05⅝- —
special tanks, dlvd.....lb. .06 - —
sulphonated, 25%, dms., l.c.l lb. .07⅜- .08¾
50%, dms., l.c.l. .....lb. .10½- .11⅞
Tankage, animal, feeding, 9-11% ammo, bulk..unit-ton. 6.00 - —
Chicago .....unit-ton. 6.75 - —
Tapioca flour, Brazilian, ex whse, bgs lb. .14½- .17
Java, AAA, bgs., ex whse., bgs. lb. .08 - .08½
AA, bgs., ex-whse.....lb. .07½- .08
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis....gal. .50 - .51
tanks, same basis....gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis...gal. .57 - .58
tanks, same basis ...gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis....gal. .73½- .74½
tanks, same basis.....gal. .62½- —
Coal (see Coaltar).
Pine (see Pinetar)
Tartar emetic tech. gran. or powd., dms lb. .56 - .59
USP, powd., dms.....lb. .61 - .62
Terpin hydrate com'l bbls., c.l lb. .24½- —
t.c.l. .....lb. .25 - .25½
NF, cryst., fib. dms.....lb. .57½- .62
powd., fib., dms.....lb. .65 - .69
Terpineol alpha (see A).
Commercial, dms., c.l., South..lb. .13½- —
l.c.l. South .....lb. .14 - —
extra, dms.....lb. .41 - .60
prime, dms.....lb. .30 - .45
Terpinglycol ether, dms., c.l., works. lb. .23½- —
t.c.l. works .....lb. .25½- —
tanks, works .....lb. .22 - —
Terpinyl acetate, extra, cns., dms.lb. .55 - .75
prime dms.....lb. .55 - 70
Propionate dms .....lb. 1.75 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100-gm. tots, bots gm. .79 - —
Propionate, USP, 100-gm. tots, bots gm. .79 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. dms., works ....lb. .20½ .21½
smaller, dms., works .....lb. .23½ .25
Tetraethyl orthosilicate, dms., c.l., works lb. .71 - —
t.c.l. .....lb. .72 - —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine dms., c.l., dlvd., E lb. .57½- —
t.c.l., dlvd E .....lb. .58½- —
tanks dlvd. E .....lb. .56 - —
Tetrapotassium phosphate (see Potassium phosphates).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thalium metal, dlvd .....lb 12.50 -15.00
Salicylate, fib dms .....lb 4.25 - —
Sodio-salicylate, fib. dms.....lb 2.90 - —
Sulphate, 99%, bots. dlvd ..lb 10.50 -12.00
Theobromine, NF, fib. dms ....lb. 3.00 - —
And sodium acetate, USP, fib. dms. lb. 3.55 - 3.60
Salicylate, fib. dms .... lb 4.00 - —
Sodio-salicylate, NF, fib. dms lb 2.90 - —
Theophylline anhydrous or USP, 100-lb. dms. lb. 3.15 - 4.00
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo.135.00 - —
Mononitrate, USP, fib. dms..kilo.135.00 - —
Thiocarbanilide, dms .....lb. .50 - .52
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works....lb. No stocks
Thiourea, tech., dms., c.l., works. lb. .40 - —
l.c.l., works .....lb. .42 - —
Thorium nitrate, purified, fib. dms., 100-lb. lots or more, works lb. 3.50 - —
Threonine dextro laevo, bots., 1-kilo lots kilo.600.00 - —
Thyme, French, bgs.....lb. .21 - .25
Spanish, bls. .....lb. .10 - .10½
Thymol, fib. dms.....lb. 3.00 - 3.25
Timbo root (see Cube root).
Tin chloride stannous anhyd., dms., works..lb. .811 - 1.019
Crystals, hydrous, dms., works. lb. .79½- .83½
Metal (Straits) .....lb. .83⅜- —
Oxide, dms. .....lb. .84½- .85½
Sulphate, stannous, bbls. .....lb. .871 - .891
Tetrachloride, anhyd. dms., works. lb. .71 - .72
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. .....lb. .23½- —
ceramic, bgs., c.l., dlvd....lb. .22½- —
l.c.l., dlvd. .....lb. .23½- —
regular, bgs., c.l., dlvd....lb. .22½- —
l.c.l., dlvd. .....lb. .23½- —
metallurgical, natural, granular, bgs., c.l., f.o.b. Jacksonville, Fla ton.120.00 - —
Niagara Falls, N. Y. ton.137.50 - —
5-ton lots, same basis. ton.142.50 - —
ton lots, same basis. ton.147.50 - —
Milled titanium dioxide $7.50 per ton higher.
rutile, non-chalking, bgs., c.l., dlvd. E. lb. .24½- —
l.c.l., dlvd. E.....lb. .25½- —
Hydride, cns., works.....lb. 7.95 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd..lb. .08⅜- —
l.c.l., dlvd. .....lb. .08⅝- —
Tetrachloride, tech., dms., c.l., works. lb. .45½- —
t.c.l., works .....lb. .48½- .56½
tankcars, works .....lb. .44½- —
Tolidin base distilled, kgs lb 1.30 - —
Tolu balsam, cns., dms.... .....lb. 2.50 - 3.25
Toluene (see Toluol).
Toluol, coaltar, industrial or nitration, tanks, works:—
Bethlehem, Pa. .....gal. .34 - —
Birmingham dist.....gal. .32 - —
Chicago dist .....gal. .35 - —
Cleveland, dist.....gal. .34½- .35
Geneva, Utah .....gal. .26 - —
Johnstown, Pa.....gal. .32 - —
Lackawanna, N. Y.....gal. .35 - —
Lone Star, Tex .....gal. .35 - —
Lorain, Ohio.....gal. .35 - —
Philadelphia, Pa.....gal. .35 - —
Pittsburgh dist .....gal. .32 - —
Sparrow's Point, Md gal. .34 - —
Terre Haute, Ind .... gal. .35 - —
Youngstown, Ohio.... gal. .32½- .33

Toluol, petroleum, industrial, 2" tanks, works, Albany, N. Y. gal. .35 - —
Bayonne, N. J.....gal. .35 - —
Baytown, Tex.....gal. .33 - —
Chicago, Ill.....gal. .35 - —
Detroit, Mich .....gal. .35 - —
Philadelphia, Pa.....gal. .35 - —
Providence R. I.....gal. .35 - —
Wood River, Ill.....gal. .35 - —
Tonka beans, Angostura, cks....lb. 1.65 - 1.80
Brazilian, Surinam, cs.....lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns.....oz. .42 - —
Toxaphene, dms., c.l., works....lb. .17 - —
truckloads, works.....lb. .17 - —
ton to truckloads, works....lb. .20 - —
smaller lots, works.....lb. .23 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .47¼- —
l.c.l., same basis.....lb. .48¼- .49¾
tanks, same basis.....lb. .45¼- —
Tributyl citrate, tech., dms., c.l lb. .40½- —
l.c.l. .....lb. .41½- —
tanks .....lb. .39 - —
Phosphate, dms., c.l., works..lb. .52 - —
l.c.l., same basis.....lb. .53 - —
tanks .....lb. .50 - —
Tributylamine, dms., c.l., works. lb. .74 - —
l.c.l., same basis.....lb. .75 - —
tanks, same basis.....lb. .72 - —
Trichlorobenzene, dms., c.l., works, frt. alld. lb. .14½- —
l.c.l., frt. alld.....lb. .15½- —
tanks, frt. alld.....lb. .13 - —
Prices in the West 1¼c. higher.
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald. lb. .11¼- —
dlvd. E.....lb. .12½- —
l.c.l., dlvd. E .....lb. .13½- —
tanks, works, frt. equald.....lb. .10¼- —
dlvd. E.....lb. .11 - —
Trichloroethane, dms., c.l., works.lb. .13 - —
l.c.l., works .....lb. .13½- —
tanks, works .....lb. .11½- —
Tricholine citrate, 65% solut., ret. chys., works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd. .....lb .36 - —
tanks, dlvd. .....lb. .33 - —
petroleum, dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd. .....lb. .36 - —
tanks, dlvd. .....lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .26¼- —
l.c.l., same basis .....lb. .27¼- —
tanks, same basis.....lb. .24½- —
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
l.c.l., same basis .....lb. .48 - —
tanks, same basis.....lb. .45 - —
Triethyl phosphate dms., c.l., works. lb. .38 - —
l.c.l., same basis.....lb. .39 - —
tanks, same basis.....lb. .37 - —
Triethyleneglycol, dms. c.l., dlvd E. lb. .23¼- —
l.c.l., same basis.....lb. .24¼- —
tanks, same basis.....lb. .21½- —
Triethylenetetramine, dms. c.l., dlvd E lb. .48½- —
l.c.l., dlvd. E .....lb. .49½- —
tanks, dlvd. E .....lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt equald, basis 100% lb. .38 - —
l.c.l., works, frt. equald, basis 100% lb. .38½- —
tanks, works, frt. equald., basis 100%. lb .33 - —
Tripentaerythritol, bgs., c.l., works. lb. .36½- —
l.c.l., same basis.....lb. .39½- —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald .....lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripoli, air floated, bgs., c.l., works. lb. .02 - —
double grd., bgs., c.l., works lb. .0185- —
single grd., bgs., c.l., works lb. .0175- —
Tripropyleneglycol, dms., c.l., frt. alld lb. .26¼- —
l.c.l., frt. alld .....lb. .27¼- —
tanks, frt. alld .....lb. .24½- —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Trisodium phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80, dms., works lb. 5.00 - 5.50
Tryptophane dextro-laevo, fib. ctns. works kilo.165.00 - —
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb. 6.21 - —
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothicin, USP, bots .....lb. .75 - .85

U

Urethane, USP dms lb 1.50 - —
Unicorn root false (see Helonias root)
True (see Aletris root).

for fast, thorough

Low Cost Degreasing

with maximum safety...

Nialk® TRICHLORethylene

Here's a chlorinated organic solvent that removes from metal parts virtually every kind of foreign matter—waxes, oils, greases, gums, tars, chips. And at lowest possible cost—because it:

CUTS POWER CONSUMPTION . . . the specific heat of Nialk TRICHLORethylene is less than ¼ that of water.

CUTS VAPOR LOSS . . . its vapor density is 4.5 times that of air.

COSTS YOU NOTHING EXTRA . . . we have never charged a premium price for Nialk TRICHLORethylene.

Equally important, Nialk TRICHLORethylene is fast, thorough, safe. Its low boiling range (86.6°-87.8°C, based on standard ASTM tests) permits vaporization at low steam pressure. Its low viscosity (0.58 centipoises at 20°C) and low surface tension (about 29 dynes per cm at 30°C) give rapid wetting of surfaces, plus thorough diffusion into pores and relatively inaccessible openings. It has no flash point and no fire point, is classed as nonflammable at room temperature and only moderately flammable at higher temperatures.

You will find, too, that Nialk TRICHLORethylene is stable and completely re-usable after distillation.

In short, Nialk TRICHLORethylene is an ideal solvent for almost any metal degreasing application. Quickly, safely, economically, it leaves parts clean, warm and dry, ready for immediate assembly, inspection or surface treatment. Order now. Delivery will be made promptly.

A request, written on your company letterhead, will bring you a free copy of our new Nialk TRICHLORethylene *booklet.*

NIAGARA ALKALI COMPANY
60 East 42nd Street, New York 17, New York

NIALK® Liquid Chlorine • NIALK Caustic Potash • NIALK Carbonate of Potash • NIALK Paradichlorobenzene
NIALK Caustic Soda • NIALK TRICHLORethylene • NIAGATHAL® (Tetrachloro Phthalic Anhydride)

Urea—Zirconium Oxychloride

Urea, dom., 46% N, bgs., c.l., works lb. .06 - —
t.c.l., works lb. .06½- —
45% N, bgs., c.l., 36 tons, frt alld Kan Neb., N. Dak Okla. S Dak Tex and E ton.154.00 - —
t.c.l., dlvd ton.162.00 - —

Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W Va ton.128.00 - —
C grade, tankcars, same basis, ton.126.50 - —
37 grade tankcars, same basis, ton 155.50 - —

Uva ursi leaves, bls lb. .12 .14

V

Valerian root, Belgian, bgs lb. .38 - .40
Valine, dextro-laevo, dms., works lb 21.00 - 27.50
Valonia beards 40-42% tannin ngs ex dock ton.75.00 - —
cups 28-30% tannin ngs, ex dock ton.56.00 - 57.00
extract, powd., 62% tannin, bgs., ex dock, duty extra lb. .05½- —
Vanadium pentoxide tech., dms., works lb. 1.28 1.33
Vanilla beans, Bourbon, tins lb. 6.50 - 6.75
Mexican, cuts, tins lb. 6.50 Nom.
whole, tins lb. 6.75 - 7.00
Tahiti, cs. lb. 5.25 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots, lb 6.50 6.75
smaller lots lb 6.90 7.25
ex guaiacol, tins, 25-lb lots lb 3.00 —
smaller lots lb 3.05 3.15
ex lignin, tins, 25-lb lots lb 3.00 —
smaller lots tins lb 3.05 3.15

Vinyl acetate 55-gal. dms., c.l., dlvd. E lb. .17½ —
t.c.l. dlvd E lb. .18½- —
tanks, dlvd. E lb. .15½- —
butylether normal, tech. dms., c.l., works lb .28 —
t.c.l. works lb .30 —
tanks works lb. .27 —
Ether (see Ether Vinyl).
Ethylether, tech., dms., c.l., works, lb. .28 - —
t.c.l. works lb .28 - —
tanks, works lb. .25 - —
Isobutylether, tech., dms., c.l., works lb. .28 - —
t.c.l. works lb .30 - —
tanks, works lb .27 - —
Methylether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Pyridin, ret, dms., works lb. 1.50 - —
Trichloride (see Trichloroethane).
Viosterol in alcohol, 1,000,000 D units per gm bots lots of 10 billion USP units, 1,000,000 units .025 —
lots of 1 billion USP units, 1,000,000 units .03 —
lots of less than 1 billion USP units 1,000,000 units .035 - —
in natural vegetable oil, 400,000 to 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units .02 - —
lots of 1 billion USP units, 1,000,000 units .025 - —
lots of less than 1 billion USP units, 1,000,000 units .03 - —
Vitamin A synthetic, acetate, crystalline, beads, 500,000 A units per gm gm. .07¼- —
liquid, in oil 1,000,000 A units per gm, 1,000,000 units .12 - —
Palmitate, liquid 1,000,000-1,800,000 A units per gm 1,000,000 units .12 - —
in oil, 1,000,000 A units per gm 1,000,000 units .12 - —
B (see Thiamine hydrochloride).
B2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B6 (see Pyridoxine hydrochloride).
B12 crystalline gm or 5 gm vials gram 295.00 - —
oral grade solids, in containers of 1 and 5 grams of B12 activity gm.225.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D2 (see Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K1, 25 gm bots gram 4.50 —
Violet methyl toner (see Blue methylviolet toner.
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls lb. 2.30 - 2.50
Warfarin, 0.5%, dms., 50 lb lots, dlvd lb 1.95 - —
25-49 lb. lots, f.o.b., N. Y., or Chi lb 2.05 - —
5-24 lb lots, cns. f.o.b., N. Y., or Chi lb 2.15 - —

Wattle bark, fair average, ex S. African, bgs., ex dock ton.100.00 - —
merchantable bgs., ex dock ton 96.50 - —
extract, liquid 25% tannin bbls., lb. .09¾ .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
S. Africa, 60% tannin, ex-dock, duty extra lb. .10 - —

Wax amorphous (see Wax microcrystalline)
Bayberry bgs spot lb .42 - .45
Bees, crude, African, bgs lb. .48 - .49
Brazilian bgs lb No stocks.
Central American, bgs lb. .56 - .57
Chilean, bgs lb 57 - .58
refined, bleached, white, bricks lb. .65 - .67
slabs lb. .63 - .65
yellow, bricks lb. .58 - .60
slabs lb. .56 - .57
Candelilla, crude, bgs. lb. .75 - .77
refined, bgs lb. .77 - .79

Powdered candelilla, 20 mesh, 5c. per lb. higher; 50 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots, lb. .85 Nom.
North Country, No. 2, bgs., ton lots lb. .94 Nom.
No. 3, crude, bgs., ton lots lb. .87 - .89
refined, bgs., ton lots lb. .90 - .92
Wax, carnauba, yellow, No. 1 Ceara, bgs., ton lots lb. 1.18 - 1.20
No. 2, Ceara, bgs., ton lots, lb. 1.16 - 1.18

Powdered carnauba wax price differentials same as powdered candelilla.

Esparto, African lb. .70 - .72
Japan, bgs lb. .24 - .25
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 25,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis, lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
smaller lots, same basis, lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, same basis, lb. .25 - .26
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
smaller lots, same basis, lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
smaller lots, same basis, lb. .15½- —
white, ctns., 20,000 lbs. same basis lb. .27 - —
smaller lots, same basis, lb. .28 - —
190°-195° m.p., ASTM, amber ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis, lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis, lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
smaller lots, same basis, lb. .34½- —
Montan, dom., refined, bgs lb. .31 - .32
imported, crude, Bonemian, bgs lb. .12 - .13
German bgs lb. .13 - .13½
Ouricury, ref., bgs lb. .78 - .80
Paraffin (see P)
Spermaceti, blocks, cs lb. .25½- .31
cakes, cs lb. .26½- .32
Sugar cane, dom., ref'd., slabs, works lb. .75 - .80
spot lb. .77¼ .82¼
White lead (see Lead white)
White pine bark, rossed, bls lb. .20 - .22
White precipitate USP powd. dms. lb 5.60 - —
Whiting (see calcium carbonate).
Wild cherry bark, thin, natural, bls lb. .18 - .19
rossed, bls lb. .19 - .2
Ginger (see Snake root, Canada).
Witch hazel bark, bls lb. .15 - —
leaves, bls lb. .21 - .23
Woodflour 40 mesh bulk c.l. works, East ton 32.00 —
t.c.l. same basis ton 36.80 —
60 mesh bulk, c.l. same basis ton 37.00 —
t.c.l. same basis ton 42.55 - 55.00
80-100 mesh bulk, c.l., same basis ton 45.00 - 50.00
t.c.l., same basis ton 51.75 - 57.50

Woodflour in bgs. extra, returnable.

Wolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs lb. .30 - .35
Levant, bgs lb 4.25 4.50

X

Xylene (see Xylol).
Xylenol, cryst., 56°-58°C., m.p., ret. dms., t.c.l., works, frt. equald. lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
t.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fractions, over 7°C., m.r., except meta, dms., c.l., same basis gal. .96 - —
t.c.l., same basis gal. .99 - —
tanks, same basis gal. .85 - —
meta fraction, over 7° C., dms., c.l., same basis gal. 1.01 - —
t.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
Xylidins, mixed, dms lb. .39 - .50
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa gal. .35 - —
Birmingham district gal. .32 - —
Chicago district gal. .35 - —
Cleveland district gal. .35 - —
Geneva, Utah gal. .27 - —
Johnstown, Pa gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex gal .35 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo gal .34 - —
Philadelphia, Pa gal. .36 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md. gal. .35 - —
Terre Haute, Ind gal .35 - —
Youngstown, O gal. .32½- —
Petroleum, indust., tanks, Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .35 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Philadelphia Pa. gal. .35 - —
Providence R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara yara, ens lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb dms lb .53 - —
200 Int'l B units per gram, 100-lb dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis St. Paul lb. .35 - —

Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below

Benzidin, AAA, bbls., dlvd. lb. 1.91 - —
AAOT, bbls. lb 2.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies. lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.20 - —

Cadmium yellows, Los Angeles and San Francisco ex whse., 1c. per lb. higher.

Yellow, chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —

Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Hansa, 10 G, bbls., same basis, chrome lb. 2.15 - —
G pigment, bbls lb. 2.91 - —
Iron oxide, natural, French type, bgs., c.l., works lb. .05¼- —
Peruvian type, bgs., t.c.l. lb. .038 - —
pure, bgs., c.l., works lb. .10½- —
t.c.l., works lb. .10¾- —
Mercury oxide, bbls., 1,000-lb. lots, lb. 4.15 - —
smaller lots lb. 4.17 - —
Ocher (see Yellow iron oxide, natural).
Zinc (chromate) bbls., dlvd lb. .25 - —
basic, dlvd. lb. .30 - —
Yerba santa leaves, bls lb. .40 - —
Yohimbine hydrochloride, bots., tins, oz. 4.75 - 5.25

Z

Zein, bgs., 30,000-lb. lots, works lb. .38 - —
1,000 to 30,000-lb lots, works lb. .40 - —
smaller lots works lb. .43 - —
Zinc acetate, tech., bbls., dms., works lb. .27 - —
NF VIII, dms lb. .53 - —
Borate, bgs, c l, dlvd E lb. .192 - —
t.c.l. dlvd E lb. .202 - —
Carbonate, tech., rubbermakers, bgs. c.l., works lb. .14¼- —
t.c.l., works lb. .15 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated powd. dms lb. .26 - —
solution 50% dms. c.l., works, 100 lbs. 5.50 - —
t.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —
tech., fused, dms., c.l. works 100 lbs. 10.10 - —
t.c.l. works 100 lbs. 10.60 - —
gran., fib., dms., c.l., works 100 lbs 10.60 - —
t.c.l., works 100 lbs. 11.00 - —
Chromate (see Yellow zinc).
Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works lb. .543 - —
Dust, pigment, bbls., c.l., works, lb. .13¼- —
t.c.l., works lb. .14¼- —
Fluoride, bbls., works lb. .49 - .50
Hydrosulphite, dms., c.l., frt. alld. lb. .21½- —
t.c.l., frt. alld lb. .22 - .37½
Iodide, NF, jars lb. 5.25 - —
Laurate, bbls. lb. .45 - .46
Metal, slabs, E. St. Louis lb. .10 - —
Naphthenate, liquid, 8%, Zn, dms., frt. alld. lb. .24½- —
10% Zn. dms., frt alld lb. .30 - —
Oleate, fused, bbls lb. .36 - —
Oxide, pigment, American process, lead-free, bgs., c.l., dlvd lb. .13½- —
t.c.l., dlvd lb. .14½- —
leaded 35%, bgs., c.l., dlvd. lb. .14 - —
t.c.l., dlvd lb. .15 - —
50%, bgs., c.l., dlvd lb. .14½- —
t.c.l., dlvd lb. .15½- —
French process, com'l green seal, bgs., c.l., dlvd lb. .15¼- —
t.c.l., dlvd lb. .16¼- —
red seal, bgs., c.l., dlvd lb .14¾- —
t.c.l., dlvd lb. .15¾- —
white seal, bgs., c.l., dlvd lb. .15¾- —
t.c.l., dlvd lb. .16¾- —
USP, ctns., c.l., dlvd lb. .16¾- —
t.c.l., dlvd lb. .17¾- —

Zinc oxide Pac. coast prices 1c. higher.

Phenolsulphonate, NF, gran., dms. lb. .39 - —
powd., dms. lb. .42 - .49
Resinate precip., dms., frt. alld. lb. .26¾- —
Silicofluoride, bbls., works lb. .12 - .13
Stearate, tech., USP, ctns., c.l. lb. .37 - —
t.c.l. lb. .38 - .42
Sulphate cryst., 22% Zn, bgs., c.l., works, frt. alld. 100 lbs. 7.40 - —
t.c.l., same basis 100 lbs. 7.90 - 9.90
flake, 25½%, Zn, bgs., c.l., works 100 lbs. 6.55 - —
t.c.l. works 100 lbs 6.90 - —
36% Zn, bgs., c.l., frt. alld. 100 lbs. 7.90 - 8.05
t.c.l., same basis 100 lbs. 8.65 - 8.80

Zinc sulphate in bbls. 40c higher.

USP, gran dms lb. .26 - —
Sulphide, pure bgs., c.l. dlvd lb. .2530- —
fluorescent fib., dms., less than 1,000-lb. lots, works lb. 1.10 - 1.90
phosphorescent fib dms., less than 1,000-lb. lots, works. lb. 1.85 - 2.50
Undecylenate, dms lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride bgs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works 100 lbs. 10.25 - —
t.c.l., bbls., works 100 lbs. 10.75 - —
Zinc-cadmium sulphide fluorescent fib., dms., less than 1,000-lb. lots, works lb. 2.10 - 2.90
Zinc-calcium resinate, dms., c.l., works lb. .1180- .1360
t.c.l., same basis lb. .1220- .1400
Zinc-formaldehyde sulphoxylate, basic, dms. c.l. lb. .25½- —
t.c.l. lb. .26 - .41½
normal, dms. t.c.l. works lb. .52 - —
Zircon (G), granular, bgs., c.l., works lb. .03¼- —
5 tons to c.l., works lb. .03¾- —
1 ton to 9,999-lb. lots, works, lb. .04 - —
smaller lots, works lb. .06½- —
milled, bgs., c.l., works lb. .04¼- —
5 tons to c.l., works lb. .04⅝- —
1 ton to 9,999-lb. lots, works, lb. .04⅝- —
500 to 1,999-lb. lots, works, lb. .07½- —

Zircon (G) in barrels, 1c. higher.

Zirconium acetate, 13% sol ZrO_2, c.l., 30,000 lbs. minimum, works lb. .23 - —
Carbonate basic, cake bbls., works lb No prices.
Hydride ens. works lb. 7.25 - 11.50
Nitrate, dms., ex whse ton. 4.50 - 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works lb. .44½- —
1 ton to 9,999-lb. lots, lbs., works lb. .45 - —
Zirconium oxide, C.P., white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works, lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works lb. .59½- —
1 ton to 9,999-lb. lots, works lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works, lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works lb .35½- —

Copper Scrap Export Rules Eased by Dept. of Commerce

The Department of Commerce announced last week that applications for licenses to export copper scrap and copper-base alloy scrap may now be filed at any time. Exporters previously were required to file such applications during a specified period in each quarter.

The commodities affected by the relaxations and their Schedule B numbers are:—New and old copper scrap, No. 641300; and new and old copper-base alloy scrap No. 640000. These commodities are now being licensed on an open-end basis. Under this procedure no quantitative limit is set on exports but they are still controlled to safeguard the national security.

The department also announced the continued open-ending for the fourth quarter of certain other copper products, including blister copper, refined copper in crude form and copper base alloy ingots.

SBA Revised Loan Policy Stresses Equal Treatment

A revision of loan policy to make it clear that any small business enterprise with a good management record and able to give reasonable assurances of repayment is eligible to apply to the Small Business Administration for a business loan, it was announced by the agency November 17.

Explaining the new policy, Wendell B. Barnes, acting administrator, stated that "in other words, the government is granting no preference as between types of American small business in applying for financial assistance. All can expect to have their applications considered by SBA on an equal basis."

It was stated that the revision in policy is not a departure from the original objective of the three-man loan policy board, but is a more precise definition of the board's intent to provide assistance wherever needed to all segments of the small business community.

Linseed Oil Sales Told By Dept. of Agriculture

The Department of Agriculture announced last week that it had sold 44,800,000 pounds of linseed oil to the Interoceanic Commodities Corporation, New York, at a price of 8½ cents a pound. It was also announced that approximately 180,000 pounds of raw linseed oil was sold to Sherwin-Williams Company, Cleveland, Ohio, at 12 cents a pound.

The announcements were contained in the department's sales report for October 8 and 21, made public November 16. During the period September 7-23, the department sold 2,824,690 bushels of flaxseed from the 1953 crop to various concerns at $4 a bushel, net. Purchasers were:—Archer-Daniels-Midland Company, Minneapolis, Minn.; Cargill, Inc., Pittsburgh, Pa.; Minneapolis, Minnesota Linseed Oil Company, Minneapolis, and Spencer Kellogg & Sons, Inc., Buffalo, N. Y.

Maywood Plant Has Fire

A fire, caused by a series of explosions, broke out last week at the Maywood Chemical Works plant, Maywood, N.J., causing an estimated $3,000 damage to a storage shed and was quickly extinguished. Albert J. Turner, Maywood president, attributed the explosions to the thick fog covering the area. Drops of water leaked through the roof of the wooden shed and into some steel drums containing the residue from the production of lithium, which is combustible upon contact with water, he explained.

Ciba Introduces New Remedy

Ciba Pharmaceutical Products, Inc., Summit, N. J., has announced the introduction of "Serpasil," its new, pure, crystalline alkaloid of the Indian herb—Rauwolfia serpentina. Serpasil has been used successfully, it was said, to reduce high blood pressure, being particularly effective in those patients with superimposed emotional disturbances.

to assure

SCUFF-RESISTANT FILMS
HIGHEST GLOSS
MAXIMUM DURABILITY

at lower raw-material costs
with simplified formulae

CARDIS-ONE

the only emulsifiable
petroleum wax with

PENETRATION ONE-TWO

(melting point 195°-200°F)

- CARDIS-ONE is the hardest emulsifiable petroleum wax on the market.
- CARDIS-ONE gives films a deeper, richer gloss.
- CARDIS-ONE is available for prompt delivery—24 conveniently located distribution points are at your service.
- CARDIS-ONE is produced at the Warwick Wax Refinery, Chanute, Kansas... home of Cardis Waxes, America's most widely-used emulsifiable petroleum waxes.

For samples, specifications, suggested formulations, technical service, write:

WARWICK WAX COMPANY, INC.

SUBSIDIARY Sun CHEMICAL CORPORATION

10TH STREET AND 44TH AVE., LONG ISLAND CITY, N. Y.

MIDWESTERN OFFICE: 24 NORTH RACINE AVENUE, CHICAGO 7, ILLINOIS MONROE 6-3504

Oil, Paint & Drug Reporter

Founded October 18, 1871, by William O. Allison
Directed 1900-1942, by Harry J. Schnell
Incorporating Drug, Paint and Oil Trade, The New York Drug Bulletin, The Weekly Drug News, New York Druggists' Price Current, The Soap Makers Journal, Oil and Paint Review, and International Petroleum Reporter.
Member of Audit Bureau of Circulations

Copyright 1953 by

SCHNELL PUBLISHING COMPANY, INC.
WILLIAM S. AUCHINCLOSS, *President*
30 Church Street, New York 7, N. Y., U. S. A.
Telephone: REctor 2-9820; Cable Address: Reporter, New York

Volume 164 November 23, 1953 Number 21

Foreign Policy Problem

Because it so largely rests upon that vague, indefinite, heterogeneously constituted, and multiplicitly interpreted so-called "science," economics, there is nothing to be wondered at in the great variety of opinions which exist with respect of the foreign policy of the United States. The confusion is manyfold confounded by the somewhat evident, broadly conjecturable readiness of the Soviet Union to take advantage of every misstep in that connection. Nothing is added to the possibility of a workable compromise—a satisfactory construction is impossible—by the lack or, at least, inadequacy of knowledge of world conditions in areas of international relations, which make the US policy-planners, even the best of them—unfortunately all too few—fumble something or other even as close to home as South America. The whole matter is mussed up more than a little by the failure, inability, or refusal of so many groups to recognize that the world today is a very different place in everything from geography to politics from what it was at the beginning of the present century.

Also, there is too much double-talk and too large a persistence of that all too common belief that whatever is done should be aimed at "my" needs and the "other fellow's" faults. Of course, there is more than a little need for the development and application of a national viewpoint by individually interested groups, with its troublesome corrolary, the belief that nothing should be done to help the country's industry as a whole—to say nothing of its economy as a whole—which may hamper some one or another industrial division.

Businessmen can learn a lot that they should know about today's demands of the world upon the United States by reading President Eisenhower's recent address to the Canadian parliament—and people. At least some of them can get a bit of useful knowledge out of the President's reasoning in refusing to sanction an increase in the tariff on imported briar pipes. In fact, it would be worth the time of many to peruse the voluminous May 25, 1953, Bulletin of the Department of State, which contains various communications by the President, the Secretary of State, and the Director for Mutual Security.

Business should fully and frankly advise the Commission on Foreign Economic Policy with reference to its status on all aspects of the planning. It should also make a full, earnest effort to get adequately advised on the matter as a whole. The problem presented by the ability of any one country to be secure in all respects, in, by, and, of itself, is one which nobody can solve; no group can solve; no country can solve.

Help Government to Help

Government is not going to depart from its role of helper in all things for some time yet. Its programs and processes no doubt will be changed from time to time, mainly with the purpose of doing a better, although perhaps a smaller job. Its objective will be quality, rather than quantity.

Government helps best those who help it in the job, and the measure of the service is in keeping with that of the cooperation. Those who get the best help are not always, if ever, those who get the most help. The two qualifying terms have a widely different significance. Once again a function of the difference between quality and quantity when measured by desirable results.

There is a growing manifestation of an official belief that governmental help is most deserved by those who help themselves or, at least, make an honest and earnest endeavor to do so. The consummation of the connotations of that belief would be one of the best things that could come about in the national economy. It would do much to put private enterprise back on its own feet, able and free to go its own way. There can be no denying the desirability of that.

All of which sort of flies high in philosophy while looking at what the Business and Defense Services Administration could do for business under the proper conditions of the business atmosphere. What it could or may do for defense must be done through business. What it will do for business also must be, in large part, done through business.

The message in that direction given to the chemical industry by the director of the BDSA chemical division is very much in point (see OPD for November 16, page 4). Really, there should be no need that the chemical industry, or any other group, be told that the measure of what BDSA can do for it is that of what is done by the industry to make the doing possible. There are already far too many purveyors of business advice in the shape of guesswork. Facts are needed—and ability to interpret them. Business alone can provide the facts—and it can help most usefully in their proper interpretation.

Governmental undertakings to furnish business with informative factual data have never come up to their presumable potentialities. The reason has been lack of adequate cooperation—sometimes the service has been more harmful than beneficial because of a mistaken idea that something other than the truth, the whole truth, and nothing but the truth was good enough for "meddlers" after "inside stuff."

It is difficult for any private citizen to cooperate as he should in many things with a governmental agency when he does not have full confidence in that agency. In truth, cooperation without confidence is nowhere possible. Business can have confidence in BDSA if it will but take the trouble to find out how that agency is constructed and how it functions. Once again there is something to be learned from the message of the agency's chemical director, from his advice to make close and continuous contacts with official Washington; to talk with men in all units of all agencies; to get to know them—and learn to trust them and be trusted. They want to know and they also want to tell. They are at a loss to understand why businessmen do not take up with them better. There really is no reason for that avoidance, in spite of the somewhat common expression:—"Hell; you can't get no place with them guys."

Farm Policy for Business

All businesses in manufacturing and in distributing have much at stake in the federal government's purpose and processes in the development of what is popularly termed a "farm policy," and in the troubles which are besetting the Secretary of Agriculture meanwhile. The interest of the chemical and related divisions of industry is especially significant: they depend on agriculture (the farmer) both as supplier and as customer to a large extent—and, in common with other industries, they have no interest in that highly influential factor, the farm vote, which is the only reason why there is advocacy of such a thing as a farm policy and not of a factory policy of similar purview. Of course there is something which passes as a labor policy.

Much is being said today about the soil conservation aspects of the farm policy. Because the soil is the farmer's basic resource, its conservation should be his primary concern. He should not have to be paid for soil conservation. In fact and logic, because the soil is a national resource, those who have use of it should be compelled by law to conserve it, to keep it fed and watered.

One of the earliest statements of the present Secretary of Agriculture had it that agriculture needed, not supports for its prices, but markets for its products. That went only part way toward the truth. What agriculture needs are ability and will properly to serve the markets for its products which have existed since the beginning of the human race and have kept pace with it in expansion.

The chemical and related industries can do much to help the farmers who manifest those qualifications. The two groups should get to know each other better in needs and in deeds. Each would be the gainer.

For the Bookshelf

EVOLUTION OF THE CALIFORNIA LANDSCAPE. By Norman E. A. Hinds. Cloth; 240 pages, 9¾ x 8¼ in., with pocketed supplementary maps and charts. San Francisco: Department of Natural Resources.

This elaborate member of the California bulletins of geologic and mineralogic import (it is No. 158) is sort of outside the closely related industrial aspects of such resources. It has to do more with sightseeing—of course including the big business of tourism. As the director of the department says in his letter of transmittal, it "should find a useful place . . . among those persons who love to travel and admire California."

It has, however, a less esthetic usefulness because Professor Hinds systeratically describes the significant surface features of the entire state, from sea floor by way of canyon, valley, desert, and plateau to mountain top, as they are related to the geology and rock structures which have the interest of the industrialist. So, it is something more than good to look at.

Washington Talks

—Continued from page 5

line with the present thinking on the National Production Council idea.

The plant, of course, is for the national and industry councils, to be established on a voluntary basis. No one believes, however, that they could operate with complete success on such a basis, so the next step naturally would be to give the councils authority to enforce their policies by compulsory directives.

Easing Up on Farmers

Policy makers in the Republican party have decided that they had better not antagonize the farmer vote any further in view of the results of the elections earlier this month, and are now backing water on previously announced plans to "get tough" with farmers who refuse to comply with all acreage allotment orders.

On October 8, the Department of Agriculture announced that a wheat producer would have to comply with all basic crop acreage allotments established on his farm to be eligible for government price support of his 1954 wheat crop. On October 22, the department announced that this same rule of enforcement would apply to the five other basic commodities—cotton, corn, tobacco, peanuts and rice.

These plans have now been cast aside and farmers will have to comply only with acreage allotments for any one crop in order to be eligible for price supports on that crop. The excuse given for abandoning the "cross-compliance" requirement was that some fall-seeded crops had already been planted, and some referenda votes on acreage allotment and marketing quota provisions had been taken before the announcements were made.

Officials feel that compliance with all basic crop allotments established for a farm is in the interest of sound program operation, as a check on shifts from one crop to others which are also in need of production adjustments. But they also agree that the date when it should be put into effect is sometime in the future—not now.

Days, Weeks, Months

The most up-to-date and complete listing of special events to be found anywhere has just been issued by the Chamber of Commerce of the United States, titled "Special Days, Weeks and Months of 1954." As made evident by the booklet, Washington has another big problem on its hands—how to stretch the year to cover all the schemes for promoting business, special holidays and religious observances so that each will have its own special day or week. Compilers of the booklet found 400 such events and doubtlessly there are more of purely local character.

The booklet, however, serves a purpose other than merely satisfying one's curiosity because it enables business men to tie in their promotion plans with national celebrations. It is a handy promotion tool for retailers, wholesalers, manufacturers, advertising agencies, newspapers, radio and TV stations, chambers of commerce and trade associations. Also, the booklet furthers public support of such observances as Fire Prevention Week, American Heart Month, March of Dimes, Easter Seal Appeal and similar worthy causes.

It has its lighter side, however. Listed among the special events are such celebrations as Sadie Hawkins Day, National Laugh Week and National Leave Us Alone Week, the latter sponsored by a newspaper editor who tired of too many special events and wanted to give the people a week of rest to do as they please.

Meet LABEL CLAIMS More Economically

with Pfizer

VITAMIN A

Crystalets®

AND VITAMIN A & D Crystalets®

● You can use *less* Vitamin A to meet label claims when you specify Pfizer Vitamin A Crystalets... dry, free-flowing granules of Crystalline Vitamin A Acetate enveloped in a matrix of gelatin and sugar. You can make corresponding savings in Vitamins A and D when you use Pfizer Vitamin A and D Crystalets.

The Vitamin A and Vitamin D in Crystalets retain *more of their original potency* than in other commercial forms of these vitamins. This means:

You can add less overage.

Your products lose very little potency, even when stored for longer than average shelf life.

Crystalets are compatible with other vitamins and minerals and require no special handling precautions. The A Crystalets are available in potencies of 250,000 and 500,000 units per gram and in a variety of mesh sizes. The A and D Crystalets come in two ratios: 5:1 (500,000 units of A and 100,000 units of D) and 10:1 (500,000 units of A and 50,000 units of D) and are available in three mesh sizes.

Check with Pfizer, one of the nation's leading Vitamin manufacturers, the next time you're in the market for Vitamin A.

CHAS. PFIZER & CO., INC.
630 Flushing Ave., Brooklyn 6, N. Y.
Branch Offices: Chicago, Ill.; San Francisco, Calif.; Vernon, Calif.; Atlanta, Ga.

Pioneers and Leading Manufacturers of Vitamins Pfizer

COLUMBIA-SOUTHERN

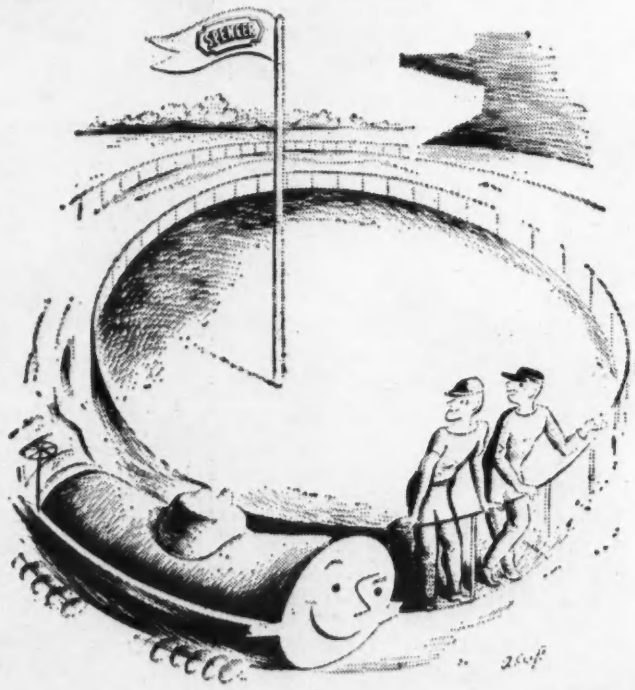
MURIATIC ACID
(HYDROCHLORIC ACID)
20°—22° BAUME
8,000 Gallon and 10,000 Gallon
Rubber-lined Tank Cars

COLUMBIA-SOUTHERN
CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
420 DUQUESNE WAY, PITTSBURGH 22, PENNSYLVANIA

DISTRICT OFFICES: BOSTON • CHARLOTTE • CHICAGO • CINCINNATI
CLEVELAND • DALLAS • HOUSTON • MINNEAPOLIS • NEW ORLEANS
NEW YORK • PHILADELPHIA • PITTSBURGH • ST. LOUIS • SAN FRANCISCO

SODIUM BICARBONATE, U.S.P.
Specialized Grain Sizes
MONOHYDRATE OF SODA
SAL SODA CARBONATE OF SODA CRYSTALS
Technical Service
CHURCH & DWIGHT CO., INC.
70 Pine Street • New York 5, N. Y. • Phone Digby 4-2181

Spencer Service is Wonderful



'42 seconds flat. Two seconds faster

and he will qualify as a Spencer tank car!'

SPENCER
America's Growing Name in Chemicals
SPENCER PRODUCTS: Anhydrous Ammonia • Refrigeration Grade Ammonia
Aqua Ammonia • Methanol • Formaldehyde • Hexamine • "Mr. N" Ammonium
Nitrate Fertilizer • SPENSOL (Spencer Nitrogen Solutions) • 83% Ammonium
Nitrate Solution • FREZALL (Spencer Dry Ice) • Liquid Carbon Dioxide.
Executive & Sales Offices, Dwight Bldg., Kansas City, Mo. Works: Pittsburg, Kas., Henderson, Ky., Chicago, Ill., & Vicksburg, Miss. (under construction)

Heavy Chemicals

Price trend was slightly upward last week, the index recording 98.25, compared with 98.22 in the preceding period. An advance in metallic tin was reflected in most of the tin based chemicals. The metal was more active with buyers showing increased confidence in the market. Quicksilver was also priced higher due to a broader demand and a tightening of spot offerings. There were no other price changes in the nonferrous metals. Demand for copper was fair for nearby shipment. Producers expressed satisfaction over the volume of business placed in lead and a moderate increase in zinc sales was also noted. BDSA stated that domestic production of aluminum will touch a record high this year of 2½ billion pounds, against 1.9 billion in 1952.

Producers of heavy chemicals generally admitted that demand continued good. It was pointed out that most of the business passing is confined to current wants which suggests that consumers are not inclined to build up inventories. Shipments of light soda ash remained substantial and the same applies to liquid caustic soda. There seemed to be more chlorine around than could be readily absorbed regardless of attempts to hold the market in balance by cutback production. Demand for calcium chloride continued strong for winter use. No change in cobalt based chemicals has been announced to date. It looks though some of the barium salts will be advanced shortly and one producer has advanced the price of chlorine in cylinders.

Paper production based on percentage six-day capacity was 97.7 percent for the week ending November 14, according to the American Paper and Pulp Association. This compared with 95.9R in the preceding week and 91.2 in the corresponding week of 1952.

Aluminum Sulphate—Both grades have found a steady outlet for paper sizing. Commercial is moving also for water treatment and iron free is commanding attention for color and dye operations. Stocks have continued adequate to meet requirements promptly.

Ammonia, Anhydrous—Absence of pressure for agricultural use has kept the market in relatively easy supply. According to producers, this material is difficult to store and immediate shipments have not been a problem temporarily at least.

Ammonium Bicarbonate—Prompt shipments have continued in demand from bakeries. Production has kept first hand inventories sufficient to meet requirements.

Calcium Chloride—Buying interest was generally described as strong for winter use although the warm weather over last week seemed to dim the pressure for shipments slightly. Most of the producers had stocks adequate to meet demand.

Carbon Bisulphide—Some let down in the viscose demand has resulted in improving the supply position but the market did not appear far out of balance at the close of the week. Demand for several solvent uses was reported steady.

Carbon Tetrachloride—Demand has continued active so far this month and has covered a rather wide field. Prompt shipments have attracted the most attention and buyers have not experienced difficulty in covering requirements.

Chlorine—Producers have attempted to regulate production to demand but are facing a problem with the supply of electrolytic caustic soda. There have been instances where chlorine output has been cutback sufficiently to tighten the supply of caustic soda by some plants who use the electrolytic process. The current demand for chlorine, while good, is not sufficient to fully absorb production and consumers have found the spot market in adequate supply. The limited facilities for storing chlorine is an additional problem facing producers at the present time. One of the major producers has advanced the price of cylinders to 9.25c. per pound at the works for carlots and 1½c. higher for l.c.l. Prices are effective on spot and contracts January 1.

Copper Sulphate—There was an absence of new developments last week. Industrial demand continued strong. Agricultural demand remained weak and export sales were spotty and not important. Production has been sufficient to keep the market in adequate supply while prices are firmly sustained.

Glauber's Salt—Demand for use in dyestuffs and detergents has been well sustained so far this month. Producers admit that stocks are not excessive but sufficient to level off needs promptly.

Magnesium Chloride—Finding a steady outlet under a rather broad demand including fire-proofing, disinfectants, textiles and chemicals. Prices are firm with anhydrous lump in drums, carlots, listed at 12¾c. per pound and flaked and powdered moving on the basis of $50 per ton, carlots, works. Stocks not excessive but meeting requirements without difficulty.

Potash, Caustic—Buying interest while fair has not shown much variation since the turn of the month. In some producing quarters it was stated that a slight increase could be noted in small lot transactions with the buyer demanding immediate shipment. It is not believed that consumer inventories are heavy but there is no disposition to buy in excess of actual wants. Meanwhile, the supply situation remains comfortable.

Potassium Carbonate—Producers stated that the let down in demand for television sets and the natural reduction in the manufacture of glass tubes are factors affecting the demand for carbonate from glass plants at present. The disposition is to buy the basic material for immediate shipment and only for necessary needs. There is no shortage of stocks at present and prices are fully sustained at former levels.

Potassium Chlorate — Not unusually active although sales are said to be about normal for this period of the year. Match factories seem content to limit purchases to actual wants. There is no change in prices and producers' inventories are sufficient to permit immediate shipments.

Potassium Stannate — Higher prices were established last week on account of the advance in metallic tin. Demand for plating use was described as good with stocks available for immediate shipment. Producers quote 63.9c. to 70.5c. per pound, freight allowed east. Prices are based on tin at 83c. per pound.

Soda Ash — Shipments of light ash steady with demand good and showing little variation throughout the month. Dense ash movement fair but not as active as light ash. Maintenance of production has kept the supply situation favorable and deliveries have moved out regularly. Producers are in a position to offer prompt or forward shipments at current prices.

Soda, Caustic—Liquid demand active with total shipments of substantial volume. The dry forms were also in good demand. While occasional shortages have come up in some producing quarters, there is no overall scarcity and stocks were readily available for prompt and forward requirements. Whether the present overflow of chlorine will force a further cutback in production of electrolytic caustic soda is a matter of conjecture but there are producers who are concerned over the chlorine supply condition at present.

Sodium Bicarbonate—Sales generally satisfactory with some of the producers reporting a gradual increase in the demand for refined. Prices remained steady with stocks offered for immediate or forward shipments.

Sodium Chlorate — Market situation showed no important change last week. This is usually the quiet season for this chemical with sales mostly for industrial use. Demand for weed control compounds is expected to materialize shortly after the turn of the year. Meanwhile, supply conditions remain favorable with immediate shipments obtainable at current prices.

Sodium Nitrite—Small lots representing actual requirements commanded attention but there was not much activity in round lots. The market maintained a firm position with stocks readily available.

Sodium Phosphate, Tripoly—Demand active with sales volume satisfactory. Shipments for detergent use and as a detergent builder in soaps has remained steady throughout the month. The price

For Late Market Developments, See Page 4

Price Trends

Advanced

Potassium stannate, .04c. per lb.
Quicksilver, $1 per flask.
Sodium stannate, .05c. per lb.
Tin chloride, .06c. per lb.
Crystals, .05c. per lb.
Metal, 1½c. per lb.
Sulphate, .05c. per lb.
Tetrachloride, .05c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
98.25	98.22	98.26	95.44

(*For Current Prices see page 9*)

has continued unchanged with production sustained to hold the supply situation adequate.

Sodium Stannate—Prices were advanced last week owing to the higher tin market. The uplift in prices did not appear to check buying interest as the sales volume remained good. Individual sales were small as consumers were not inclined to extend commitments beyond the limit of actual needs. Producers quoted 47c. to 52.4c. per pound, freight allowed east. Prices are based on tin at 83c. per pound.

Tin Chemicals—Consumer demand showed improvement last week regardless of higher prices being recorded for most of the items. Small lot sales predominated as buyers prefer to operate for current wants. The breakdown shows tin chloride at 81.1c. to $1.019 per pound, crystals 78½c. to 83½c., sulphate 87.1c. to 89.1c. and tetrachloride at 71c. to 72c. per pound, all f.o.b. the works. Prices are based on tin at 83c. per pound.

Sulphur—Demand has continued active throughout the past month. New production is expected to be available shortly and according to well defined trade reports, there is enough native sulphur above ground to cover requirements for several months ahead.

Acids

Formic—Commanding attention from the leather tanneries, laundries, dyestuff and other consuming industries. Total sales described as satisfactory with producers in a position to make prompt shipments at current prices.

Hydrochloric—Demand remained good with production not under particular pressure for shipments. Supply position comfortable with prices sustained at the previous level.

Hydrofluoric—Shipments broad enough to check stock accumulations and the market showed a well balanced condition. High octane gas producers were mentioned as prominent in the current buying movement.

Nitric—Maintenance of production has kept the supply adequate to meet consuming requirements. Miscellaneous demand fair but not of a character to pinch the availability of stocks.

Oxalic—Not unusually active but finding a moderate outlet for cleansing radiator compounds, laundries and various bleaching requirements. Stocks continued ample to meet all requirements. Demand confined mostly to immediate shipments.

Phosphoric—Supplies have not been a problem so far this month. Consuming demand, while of miscellaneous character, has averaged good while prices have followed steady lines.

Sulphuric—While demand for fertilizer materials is not pressing at present, there is a good inquiry from other consuming sources, particularly the iron and steel industry. Stocks have continued adequate in this area to meet requirements promptly.

Nonferrous Metals

Aluminum—According to the Business and Defense Services Administration, industrial consumption of aluminum is expected to reach 3,400,000,000 pounds this year, 25 percent over 1952. Domestic aluminum production is expected to total 2,600,000,000 pounds, another record and an increase of 33⅓ per cent over 1952. The difference between domestic production and consumption represents imports from other countries, particularly Canada. Of the industrial consumption, about 775,000,000 pounds represents direct defense and atomic energy requirements. The remainder will be for civilian and indirect military use. The consumption estimates do not include purchases for the strategic stockpile, since these amounts are not made public.

The Agency stated that shipments of aluminum to manufacturers, foundries and other consumers fell off somewhat in the third quarter of this year because of more cautious buying and seasonal factors. But it said demand is expected to increase after industries complete stock adjustments. According to the aluminum producers, the use of the metal for many applications has been retarded heretofore because of the uncertainty of its availability. The producers have advised BDSA that, with the prospects for increased availability, the characteristics of aluminum should lead to its employment in a variety of new uses as well as its further expansion in existing uses.

Chromite—August imports of all grades of chromite at 207,471 tons increased as compared with July, according to the Bureau of the Census. Increases of 10 percent in metallurgical imports, 18 percent in refractory, and 58 percent in chemical made a total gain of 16 percent over the previous month. The Republic of Philippines again was the greatest single source of chromite supply 29 percent of the total imports during August.

Metallurgical imports comprised 63 percent of the total and came from Turkey (42 percent), Southern Rhodesia (17 percent), Union of South Africa (16 percent), Philippines (9 percent), Yugoslavia (4 percent), Pakistan (4 percent), Cuba (3 percent), Sierra Leone (3 percent), New Caledonia and Iran the remaining 2 percent. Refractory chromite was shipped by the Philippines (86 percent), Cuba (6 percent), India (4 percent), Union of South Africa and Southern Rhodesia the remaining 4 percent. All chemical grade chromite was shipped by the Union of South Africa.

Copper—Domestic production of refined copper during October was placed at 126,138 tons by the Copper Institute. September output was 114,760 tons. Deliveries to fabricators in October amounted to 110,519 tons, against 104,886 in the preceding month. Stocks on October 31 were 84,303 tons, compared with 72,907 on September 30. Daily average production during October was 3,565 tons, against 3,496 in September and 4,048 tons, daily average for ten months. Domestic crude production in October totaled 83,-

Stauffer CHEMICALS SINCE 1885

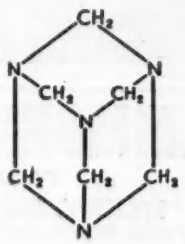
POTASSIUM NITRATE

*Aluminum Sulphate
Borax
Boric Acid
Boron Trichloride
Carbon Bisulphide
Carbon Tetrachloride
Caustic Soda
Chlorine
Citric Acid
*Copperas
Cream of Tartar
*Ferric Sulphate
Fire Extinguisher Fluid
Insecticides and Fungicides
Aldrin, Dieldrin, Parathion, and Chlordane Formulations
BHC and Formulations
Captan 50-W (Fungicide 406)
DDT and Formulations
Grain Fumigants
Lindane and Formulations
Sulphenone (Miticide)
Texaphene
*Muriatic Acid
*Nitric Acid
Perchlorethylene
Rochelle Salt
Silicon Tetrachloride
Sodium Hydrosulphide
*Sodium Silico Fluoride
Sulphur (processed) For all uses
Sulphur—Rubbermakers
Sulphur-Insoluble (in CS$_2$) (Special-purpose rubber-making)
Sulphur Chlorides
Sulphuric Acid
*Superphosphate
Tartar Emetic
Tartaric Acid
Titanium Tetrachloride
Titanium Trichloride
"Zol" Dry Cleaning Fluid
*West Coast Only

STAUFFER CHEMICAL COMPANY

420 Lexington Avenue, New York 17, N. Y. • 221 No. La Salle Street, Chicago 1, Illinois • 326 So. Main St., Akron 8, O. • Apopka, Florida • 824 Wilshire Boulevard, Los Angeles 14, Calif. • 636 California Street, San Francisco 8, Cal. • North Portland, Oregon • Box 7222, Houston 8, Texas • Weslaco, Texas

PRESERVATIVES
EXPLOSIVES
PHARMACEUTICALS
MATHIESON
"HEXAMINE"
(hexamethylenetetramine)
$(CH_2)_6 N_4$
RUBBER ACCELERATOR
RESINS AND GLUES
TEXTILE SPECIALTIES



As a chemical intermediate, hexamine (hexamethylenetetramine) has two important characteristics of significance to commercial users: it furnishes a convenient source of water-free formaldehyde and, with four N≡ groups, is a rich source of amino activity. Hexamine has numerous applications in industry and medicine including the manufacture of phenolic resins and as a hardening and insolubilizing agent for proteins.

Mathieson Hexamine is available in carload quantities from the Morgantown plant; it is packaged in moisture-resistant drums and bags. For further information, data sheets, and samples, please write on company letterhead.

MATHIESON

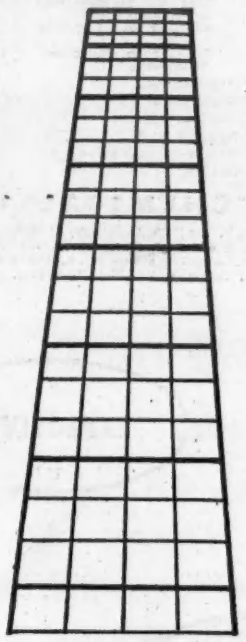
MATHIESON CHEMICAL CORPORATION
Mathieson Hydrocarbon Chemicals Division
Baltimore 3, Maryland

Ethylene Glycol • Diethylene Glycol • Triethylene Glycol • Ethylene Oxide • Dichloroethylether • Ethylene Dichloride • Methanol • Sodium Methylate • Hydrazine Products • Chlorobenzenes • Ethylene Diamine

2079

Another *SNELL* First
for On the Floor WAX EVALUATION

Our new white tile test floor in interchangable sections. The removable panel technic simplifies wax testing; interchangeable panels equalize traffic, permit side-by-side comparison.



Slipperiness

Soiling Resistance

Buffability

Durability

Our ability to design special apparatus for specific evaluation can be of great service to you.

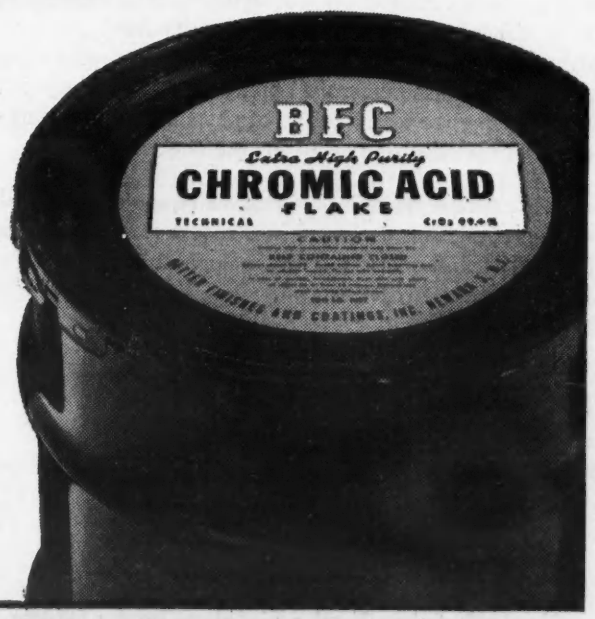
Regardless of your particular research problem, you will find the Snell Laboratories alert and expert.

INQUIRIES INVITED

RESEARCH LABORATORIES
FOSTER D. SNELL INC.
29 WEST 15th ST. NEW YORK 11, N.Y. — WA 4-8800
CHEMISTS • ENGINEERS

Tops for Quality and the top tells why!

Do we ever make a batch of Chromic Acid less than 99.7+% pure? Every so often we do. But when that happens, right out on the dump it goes —and good riddance.
The top label says "Extra High Quality" and that's what every drum contains. We think you'll like the uniform quality of our product and the way we make good on our promises. When you're in the market, why not call us?



99.7+% Pure
Consistently low in chlorides, sulphate and insolubles. More than meets every requirement of the electroplating industry, as well as U. S. Government Specification AN-A-21 and Federal Spec. QC-303.

BFC PAINTS • PLASTICS • CHEMICALS

BETTER FINISHES & COATINGS, INC.
268 Doremus Avenue, Newark 5, N. J. • 122 East 7th St., Los Angeles 14, Calif.

906 tons, against 76,952 in September. Daily average production of crude copper in October was 2,707 tons, compared with 2,632 in September.

Lead—Stocks available for November shipment were mostly sold by the close of last week and producers expressed satisfaction over the volume of tonnage booked. Buying interest in December shipment increased and steady expansion in sales is expected this week. London cables were a bit firmer with sales spotty. Domestic producers continued to name 13½c. per pound for the common grade New York and 13.30c. St. Louis basis.

Quicksilver—Priced higher last week at $184 to $186 per flask on spot, depending upon quantity and seller. The market was more active under an increased inquiry. According to trade reports spot stocks have been reduced although arrivals are expected to prevent any prolonged shortage. In some quarters it was stated that Mexican output had been temporarily sold out.

Selenium—Supply conditions remained exceedingly tight for civilian use and producers can see no nearby easement in sight at present. It was stated that the major part of current production is booked for use in the manufacture of rectifiers and other electronic equipment. It is also used to make stainless steel easier to machine.

Tin—Prices were steadier last week for Straits tin. The strength appeared to be derived from the conference at Geneva where the principal tin producing countries and consuming nations are discussing tin's problems including the possibilities of price stabilization and regulation of production. Representatives of U. S. Government agencies are in attendance, although it has been announced they will not necessarily be bound by any decisions to be reached. Among the important items up for consideration are those involving the establishment of a buffer stock pool to stabilize prices. The pool would set up a stockpile of tin and cash. It would buy when prices were low and sell from stock when the prices appeared too high. There has been no indication as to what would be considered high or low price levels. Also to be thrashed out is a method of regulating production by the setting up of export quotas for each producing nation, which would be adjusted at regular intervals. Domestic sales late last week were reported at 83¾c. per pound on spot.

Zinc—Producers note a modest improvement in the total sales volume of slab zinc compared with October. Buying interest is said to be confind to current wants which means that immediate shipments are given the preference over future requirements. Stocks have continued ample to meet all needs and the market remained steady at 10c. per pound for prime western at East St. Louis and at 10½c. delivered New York.

Industry Looks at
LITHIUM

. . . a new, informative brochure on the properties and industrial uses of lithium and its compounds.

Write for your free copy today.

FOOTE MINERAL COMPANY
407 Eighteen W. Chelten Bldg.
Philadelphia 44, Pa.

TURNER CHEMICALS

PHOSPHORUS OXYCHLORIDE
PHOSPHORUS TRICHLORIDE

produced by
OHIO-APEX, INC.
Division of Food Machinery and Chemical Corporation

JOSEPH TURNER & CO., Sales Agents, Ridgefield, New Jersey

JOSEPH TURNER & CO.
RIDGEFIELD, NEW JERSEY
83 EXCHANGE PLACE, PROVIDENCE, R. I.
435 N. MICHIGAN AVE., CHICAGO 11, ILL.

AMMONIUM BICARBONATE

PRODUCED IN PHILADELPHIA BY
HENRY BOWER CHEMICAL MFG. CO.
30th AND GRAYS FERRY RD. PHILADELPHIA 46, PENNA.

Caustic Soda | Sodium Sulphate Anhydrous | Caustic Potash

in tank cars, trucks and drums

CORNWELL CHEMICAL CORP. 24 EAST 38th ST., NEW YORK, N.Y. MU 3-0174
Philadelphia, Pa., Torresdale 4-7358 Paterson, N. J., Lambert 5-2494 Reading, Pa., RE 2-1224

Carnegie Tech to Offer Courses for Executives

Carnegie Institute of Technology, Pittsburgh, Pa., has announced that a nine week course is being offered for mature executives whose companies are grooming them for top management positions.

Officially called the Carnegie Program for Executives, the plan is being offered by the Graduate School of Industrial Administration. The program will begin on March 8, 1954, and will continue through May 7. The purpose of the program is to help middle-management executives meet the broader and more complex requirements of senior level positions in their organizations.

The nine-week course is designed for men from both large and small companies. Admission will be limited to a group of about twenty-five to thirty carefully selected executives in order to provide an opportunity for maximum personal participation and exchange of ideas. Those chosen to attend the course will be selected to include a cross section of diverse business and geographical backgrounds. The program will consist of four major work areas:—Business policies, human and labor relations, financial and other quantitative controls, and business in the American economy. Throughout the program, informal discussion and conference procedures will be followed.

Hercules Advances Three In Treasurer's Department

Arthur E. Johnson has been appointed manager of the cost division of the treasurer's department of Hercules Powder Company, Wilmington, Del., and George E. Goodyear and James M. Harr have been named assistant managers.

Mr. Johnson, assistant manager of the cost division since 1946, will succeed David R. Jones, manager since 1941, who will serve as division consultant until the end of the year. Mr. Johnson joined Hercules in 1933 as a clerk at the Kenvil, N. J., plant. From 1940 to 1941 he served as the chief payroll clerk in the Belvidere, N. J., plant, operated by Hercules. Mr. Johnson was transferred in 1941 to the home office in Wilmington, where he served in the cost division and the war contracts division until he was called into the army. When he returned to Hercules in 1946, he was named assistant manager of the cost division.

Dry Ice Unit Planned By Brea Chemicals, Inc.

Brea Chemicals, Inc., a subsidiary of Union Oil Company, has announced plans for construction of a $750,000 dry ice plant east of Brea, Orange County, Calif. Construction is planned to begin as soon as necessary permits are obtained.

The new plant, to be built near Brea's ammonia plant which is now under construction, will utilize by-product carbon dioxide from the ammonia facility to produce dry ice. Upon completion next summer the plant will employ sixteen to twenty persons.

Sequestrants Development Told by Refined Products

Refined Products Corporation, Lyndhurst, N. J., has announced the development of organic sequestrants known as "Perma Kleers." The materials are stable salts of polyamino carboxylic acids. They react with metal ions to form water soluble chelates, deactivating them without actually removing them from solution, according to the producer. Information describing the "Perma Kleers" is available from Refined Products in booklet form.

Davies Promotes Shallcross

D. C. Shallcross, technical representative for Davies Nitrate Company, New York, has been named assistant sales manager. Mr. Shallcross was with E. I. duPont de Nemours & Co., Wilmington, Del., prior to joining the Davies organization in 1951. In addition to his present work, Mr. Shallcross will have charge of sales and development of agricultural products.

Empire Trust Appoints

Peter J. Wastrom, formerly of the Guaranty Trust Company, New York, has joined the chemical department of Empire Trust Company, New York, to specialize initially in investment analysis work.

Baumstark Completes Warehouse

Harry A. Baumstark & Co., has completed an additional warehouse at 6801 Arsenal street, St. Louis, Mo. A new truck-loading dock, and new loading facilities on a railroad siding, added to the existing dock and siding, have more than doubled the efficiency of operation and handling of trucks and railroad cars. New offices have been included in this new building.

Consultants Bureau Plans Organophosphorous Bulletin

The Consultants Bureau, New York, will publish on January 10, 1954, an English translation of the *Bulletin* of the Academy of Science of the USSR, division of chemical science, 1952, No. 5 for September-October. The issue will be primarily devoted to organophosphorous chemistry, and will contain groups of papers comprising the recent work of A. E. Arbuzov and his school, published in one issue in honor of Mr. Arbuzov's seventy-fifth birthday.

The translation of this issue represents a large-scale tryout of the new Anglo-American organophosphorous nomenclature, which is that recommended by the Drake Committee of the American Chemical Society and published in *"Chemical and Engineering News,"* Vol. 30, No. 43.

Eastman
INDUSTRIAL CHEMICALS

dioctyl phthalate

Eastman CHEMICAL PRODUCTS, INC.
KINGSPORT, TENNESSEE

Sales representative for TENNESSEE EASTMAN COMPANY, division of EASTMAN KODAK COMPANY

P.S.*

WYANDOTTE
CHEMICALS

*Prompt, Safe delivery!

Wyandotte's strategic location—on major railroads, trucklines, one of the world's great waterways—assures *prompt* delivery; tested shipping methods assure *safe* delivery . . . purity on delivery.

You benefit, also, from Wyandotte Chemicals' 63 years' experience in supplying raw-material chemicals. The valuable knowledge we've gained through these years, and our fine skilled technical service are available to you anywhere . . . but there is one thing more in Wyandotte service—a reputation for integrity built up and zealously guarded over these years.

Our owned and operated raw materials resources—coal mines, brine wells, limestone quarries—assure you of a constant supply, now, and in the future.

And you can depend on Wyandotte *quality*, too! Every batch of every Wyandotte chemical is subjected to rigid control tests . . . maintaining high standards for purity and uniformity.

Call your nearest Wyandotte office, or write. Find out how you can take advantage of Wyandotte quality, dependability, experience and prompt, safe delivery.

Wyandotte
CHEMICALS
WYANDOTTE CHEMICALS CORPORATION
Wyandotte, Michigan • Offices in Principal Cities

Organics, Inorganics—World's largest manufacturer of specialized cleaning products for business and industry

ORGANIC CHEMICALS: CHLORINATED SOLVENTS • ETHYLENE DICHLORIDE • PROPYLENE DICHLORIDE • GLYCOLS • DIGLYCOLS KREELON* (ALKYLARYLSULFONATE) • CARBOSE* (SODIUM CMC) • NAXONATE* (A HYDROTROPE) AGRICULTURAL INSECTICIDES • SYNTHETIC DETERGENTS • AROMATIC SULFONIC ACID DERIVATIVES PLURONICS* (100% ACTIVE-AGENT NONIONIC DETERGENT)

INORGANIC CHEMICALS: SODA ASH • CAUSTIC SODA • BICARBONATE OF SODA • PURECAL* (CALCIUM CARBONATE) • CHLORINE • HYDROGEN • DRY ICE • CALCIUM CHLORIDE

*Reg. U. S. Pat. Off.

THINGS... YOU CAN DO WITH PQ SILICATES

A few of the things you can do with PQ Silicates. Such wide usefulness depends on the physical and chemical qualities found in PQ's 28 liquid silicates and 16 dry products:

- Solidify foundation soils
- Improve detergent quality of soap and synthetics
- Laminate paper boards, wall boards
- Deflocculate and wash clays
- Depress siliceous slimes in ore flotation
- Control Oxygen release from peroxides
- Clean metals, paper pulp, etc.
- Clarify raw and waste waters

Ask for Bulletin 17-1 containing helpful silicate data.

PHILADELPHIA QUARTZ CO.
Established 1831
1133 Public Ledger Building
Philadelphia 6, Pa.

METSO PQ PQ® Silicates of Soda
METSO® DETERGENTS

KOLON TRADING CO., INC.
BROKERS
Nickel Sulphate - Nickel Chloride - Potassium Cyanide
Cables: "KOLONOWAN" 15 PARK ROW, NEW YORK 38, N. Y. Tel: BEekman 3-8820-21

CHEMICAL IRON
GROUND TO SPECIFICATION
GAS PURIFYING MATERIALS CO. INC.
3-15 26th Ave., Long Island City 2, N.Y.

ERCO ELECTRIC REDUCTION COMPANY OF CANADA LTD MADE IN CANADA
BUY BY BRAND

HIGHEST QUALITY and STABILITY

phosphorus red, amorphous
(STABILIZED)

phosphorus sesquisulphide powder

Manufactured by
ELECTRIC REDUCTION COMPANY OF CANADA, LTD.
BUCKINGHAM, QUEBEC
Exclusive Export Agents

DUFF CHEMICAL COMPANY, INC.
342 Madison Avenue New York 17, N.Y.
MUrray Hill 7-6502 Cable Address "Chemduf"

NBS Accorded 'Clean Bill' On Battery Additive Testing

National Bureau of Standards testing on AD-X2, a battery additive, which brought about a major upheaval in the Department of Commerce earlier this year, got another vote of confidence last week. Secretary of Commerce Weeks stated that the National Academy of Sciences committee on battery additives, named specifically to look into the AD-X2 controversy, reported that the bureau's storage battery testing work "is excellent" and "is better now than at any time in the past." The battery additives group was headed by Dr. Zay Jeffries, retired vice-president, General Electric Company's chemical division, Pittsfield, Mass.

Kawecki Adds J. C. Hoff

J. C. Hoff has become associated with Kawecki Chemical Company, Boyertown, Pa., as sales representative in Indiana, Michigan, Ohio, Illinois, and Wisconsin. His headquarters will be in Detroit. Mr. Hoff has spent the last three years in the Detroit sales office of Kaiser Aluminum Company and for seven years prior to that was a metallurgist for the aluminum refiners division of Bohn Aluminum Company, Detroit.

Mercury News Bulletin Issued

Bethlehem Apparatus Company has published a news bulletin on mercury giving the picture of the current market and an appraisal of its future trends. Copies are available on request to Bethlehem, Front and Depot streets, Hellertown, Pa.

Trade Briefs

Thurman G. Thurston has been appointed by Selas Corporation, Philadelphia, as its representative in the Cleveland, Ohio, territory.

Monsanto Chemical Company's plant at Long Beach, Calif., has finished first in group III (small plants) in the company's regular plant inspection competition.

SODIUM SILICOFLUORIDE
▲
▼
NAPHTHALENE REFINED
Balls & Flakes
Contact us for offers and specifications
EUROPEAN CHEMICAL CO., INC.
366 BROADWAY, NEW YORK 13, N. Y.
Tel.: BEekman 3-0246 • Cables: Skandimex

WE OFFER
Sodium Phenolsulphonate
Ammonium Phenolsulphonate
Carload or less carload lots
Your Inquiries Invited
BONEWITZ LABORATORIES, INC.
BURLINGTON, IOWA

SODIUM SILICOFLUORIDE
(fluosilicated)
Product of SAINT-GOBAIN – Paris – France
SALES OFFICE:
MONDIAL TRADING CORPORATION
500 Fifth Avenue New York 36, N. Y.

SILICATE OF SODA
40° and 60°
EXPORT – DOMESTIC
TURPENTINE - LINSEED OIL - MINERAL SPIRITS
CHAS. L. READ & CO., Inc., 1 Newark Ave., Jersey City 2, N. J.
Telephone: WOrth 4-1131-2-3 DElaware 2-2062-3

Manufacturers of
Red and Black COPPER OXIDE
COPPER SCALE
ROBERT A. COUPE, 260 Rhode Island Ave., PAWTUCKET, R. I.
Telephone PAwtucket 3-4944

Eastman
INDUSTRIAL CHEMICALS

dimethoxyethyl phthalate

Eastman CHEMICAL PRODUCTS, INC.
KINGSPORT, TENNESSEE
Sales representative for TENNESSEE EASTMAN COMPANY, division of EASTMAN KODAK COMPANY

ACS Becomes Nation-Wide As Arizona Section Enters

With the chartering of Arizona's first local section of the American Chemical Society, the society now has sections in every state of the Union, according to an announcement by Alden H. Emery, executive secretary of the society. In addition, ACS has sections in the District of Columbia, Puerto Rico and Hawaii.

The new group, known as the southern Arizona section of the society, will have headquarters at Tucson, and will serve chemists and chemical engineers of six counties. The section, comprising eighty-four charter members, becomes the 144th local unit of the society.

Dr. Mitchell G. Vavich, associate professor of nutrition at the University of Arizona, has been elected first chairman of the section. Other officers are:—Vice-chairman, Dr. Duane Brown of Arizona State College; secretary, Dr. Edward N. Wise, University of Arizona, and treasurer, Michael J. Sullivan, jr., director of Valley Laboratories.

Philadelphia Chemical Club Installs Officers for 1954

The Chemical Club of Philadelphia has installed its officers for 1954. They are:—President, G. P. Nelson of J. T. Baker Chemical Company; vice-president, James W. Ritz of Emery Industries, Inc.; vice-president, John M. Jester, jr., of Amalgamated Chemical Corporation; treasurer, E. M. Wilson of Pennsylvania Salt Manufacturing Company; secretary, Wendell F. Simmons of Blaw-Knox Company, and corresponding secretary, John J. Cram of Conford Chemical Company.

The club will hold its annual Christmas party December 7th at Palumbo's restaurant, 824 Catharine street, Philadelphia. The organization will hold a luncheon meeting January 14th at noon at the Engineers Club, 1317 Spruce street, Philadelphia.

Vitro Elects Smith Director

Stuart B. Smith has been elected a director of Vitro Manufacturing Company, Pittsburgh, Pa., and its subsidiary, Vitro Corporation of America.

Mr. Smith is president of the Henry Pratt Company, Chicago. In 1943 he joined Vitro, on loan from that company to be assistant chief project manager for the design and construction of the gaseous diffusion plants for the atomic bomb at Oak Ridge, Tenn. Since 1947 Mr. Smith has been retained by Vitro as a consultant on construction engineering problems.

New Jersey Zinc Buys Virginia Mining Property

New Jersey Zinc Company, New York, has announced the purchase of a mining property in Mineral, Va., forty-eight miles northwest of Richmond. The property, known as the Arminius Mine, has been inactive for nearly thirty years.

The company has had the property under option for purchase since 1951, at which time a program of exploration was started to determine the potentialities of its mineral deposits, princpally with respect to zinc and lead. Diamond drilling has been under way for some time. The results of this drilling led to the decision to purchase the property, unwater the mine and continue exploration at depth. Pumping and mining equipment necessary for these operations will be installed as soon as possible.

The work will be conducted under W. L. Albers, superintendent of the company's Austinville, Va., operation.

Plastics Facility Started In Kenton, Ohio, by Durez

Durez Plastics & Chemicals, Inc., North Tonawanda, N. Y., has started construction of a large plastic molding compound plant in Kenton, Ohio.

The cost of the development has not been determined finally but is expected to involve several millions of dollars. The plant, which is expected to produce more than 64,000,000 pounds of plastic molding compounds annually, will roughly double the output of the North Tonawanda facilities. It is expected to be completed in eight months.

Humphrey-Wilkinson Expanding

Humphrey-Wilkinson, Inc., is doubling its manufacturing facilities in North Haven, Conn., with a new addition, expected to be completed before the end of the year.

CCI

POTASH ALUM

Lump • Nut • Pea • Granular • Powdered

Bags • Barrels • LCL • Carloads

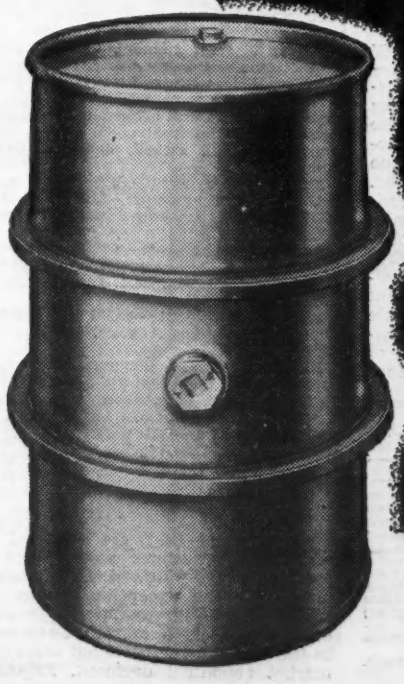
CONSOLIDATED CHEMICAL INDUSTRIES INC.

ADDRESS INQUIRIES TO: 640 MELLIE ESPERSON BLDG., HOUSTON 2, TEXAS OR 630 FIFTH AVENUE, NEW YORK 20, N. Y.

CCI

"It's Better to Ship in Steel"

Stainless Steel Barrels...



Steel Shipping Containers and Pails

THE CLEVELAND STEEL BARREL CO.

9612 MEECH AVE.
CLEVELAND 5, OHIO

FOUNDED 1912

THE CLEVELAND STEEL BARREL CO.

HAVE YOU EVALUATED Filtrol* PRODUCTS FOR OPTIMUM RESULTS IN YOUR CHEMICAL PROCESSES

Filtrol* CORPORATION
Chemical Division

General Offices
727 WEST 7TH STREET
LOS ANGELES 17, CALIFORNIA

*T. M. Reg. U.S. Pat. Off.

WRITE TODAY
FOR YOUR COPY OF FILTROL'S NEW BOOKLET DESCRIBING CHEMICAL APPLICATIONS OF FILTROL PRODUCTS.
COMPLETE TECHNICAL SERVICE AT YOUR COMMAND.

The World's Largest Manufacturers of Catalysts, Adsorbents, Desiccants and Other Chemically Treated Materials

SUNSHINE STATE POTASH
A PRODUCT OF NEW MEXICO U.S.A.
Reg. U. S. Pat. Off.

HIGRADE MURIATE OF POTASH
62/63% K_2O
GRANULAR MURIATE OF POTASH
60% K_2O Min.
MANURE SALTS 20% K_2O Min.

UNITED STATES POTASH COMPANY, INCORPORATED
30 Rockefeller Plaza, New York 20, N. Y.

AMMONIA LIQUOR
ANHYDROUS AMMONIA
A-N-L* FERTILIZER COMPOUND
ARCADIAN* NITRATE OF SODA
NITROGEN SOLUTIONS
SULPHATE OF AMMONIA
*Reg. U. S. Pat. Off.

NITROGEN DIVISION ALLIED CHEMICAL
Nitrogen Division
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

KOLON TRADING CO., INC.
BROKERS
UREA
Cables: "KOLONOWAN" 15 PARK ROW, NEW YORK 38, N. Y. Tel: BEekman 3-8820-21

For Insecticides... Herbicides...

DIAMOND ALKALI COMPANY, long associated with high-quality chemicals, is one of the world's largest manufacturers of basic insecticides and herbicides. The name DIAMOND, itself, is your automatic assurance of the best the market has to offer.

DDT 100% Technical
BHC 36% Technical
K-101 Acaricide
Hexachlorobenzene Seed Disinfectant
LINDANE 99% Gamma Isomer of BHC
Trichlorobenzene

2,4-D and 2,4,5-T Weed Killers and Brush Killers
Isopropyl Ester
Butyl Ester
Butoxy Ethoxy Propanol Esters (low volatile type)

think first of DIAMOND

DIAMOND ALKALI COMPANY
Organic Chemicals Division
80 DEFOE AVE., NEWARK 3, NEW JERSEY
Market 3-2800

Plants: Newark, N. J., Houston, Texas
Chemicals you live by

DIAMOND ALKALI CHEMICALS

Agricultural Chemicals

No important increase in demand for the basic fertilizer chemicals could be noted luast week. A slightly better movement of potash and superphosphate was reported in some quarters due to seasonal resumption of activity at small mixing plants. In other directions the large mixers are not finding it easy to induce farmers to take in stocks. According to reports from plants in the south, shipments of mixed fertilizer are off 45 percent in some instances, compared with a year ago at this time. The slow demand for finished material is reflected throughout the markets for the basic products and has permitted stock accumulations. Probably the most significant demonstration at present is in ammonium sulphate. It is hoped that American sellers will compete successfully for the government purchase of 140,000 tons for Korea. This would at least place a dent in the surplus which is of sizable dimensions at present. Producers state that the major part of their super and potash output is under contract but buyers so far have not been keen about taking withdrawals.

Packing-house byproducts displayed no unusual activity and there were no price changes to record. Castor pomace held at the recent decline with sales not as large as noted earlier in the month. Menhaden meal did not command much attention, with buyers and sellers rather wide apart in their views.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
111.34	111.34	111.50	113.53

(*For Current Prices see page 9*)

Fertilizer Materials

Ammonium Sulphate—The market position of this item was one of quite heavy inventories, many producers having so much material on hand that they had to go out and rent additional storage space. The feeling was expressed in most quarters, hindsight always being better than foresight, that the industry made a mistake a year ago in raising the price $4 per ton, and then having established the higher price level, stayed with it much too long before dropping that advance. The result was that the domestically produced cokeoven ammonium sulphate market was subjected to an influx of imported material with which it could not compete pricewise along the east coast, and fertilizer mixers showed a sustained buying resistance to the higher price level, and there was greater use made of nitrogen solutions. These and other factors led to the present build-up of abnormally high inventories.

A possibility of getting rid of some of these inventories was seen in the current government bid for foreign shipment of some 140,000 tons. This could well become a very low bid item, which amounts to essentially a dumping operation. How much of this quantity the government might feel they should buy abroad because of NATO relations, was a matter for conjecture, but the domestic industry felt that it should all be purchased at home. If a major portion of the bid is procured domestically, it would serve to relieve the present overstocked position of the market as a whole and would be good for the industry by removing that much material from excess stocks when the new buying season begins.

Fertilizer mixers claim to have heavy inventories of mixed fertilizers on hand—and some few of them actually do. However, many of them have some old stocks on hand in each bin, and want to move them before they start piling new production in front of it, because if stored too long fertilizer tends to harden or cake. Accordingly, it was felt that mixed fertilizer stocks were not as heavy as the mixers would indicate to ingredient producers, and this seemed to portend a fairly good buying season for ammonium sulphate ahead. Nevertheless, the present market position was one of considerable uncertainty, and did contain the threatening potential to sulphate producers of winding up late Spring with tremendous overage on hand, possibly as much as 200,000 tons in May. Much depends on how the Korean bid goes.

September production of coke-oven sulphate was placed at 157,547,970 pounds by the Bureau of Mines. In August 165,613,502 pounds were produced and in September last year, output showed 148,122,500 pounds. Production for nine months ending September 30 amounted to 1,452,700,110 pounds, compared with 1,140,797,000 for the same time in 1952. Sales during September were 104,234,892 pounds, compared with 117,641,826 in the preceding month and 150,297,100 pounds in September 1952. Total sales for nine months ending September 30 amounted to 1,278,428,349 pounds against 1,155,324,800 in the corresponding period in 1952. Stocks at the end of September were 248,372,677 pounds, compared with 195,160,012 on August 31 and 67,106,138 pounds on September 30, 1952.

Bone Meal—Domestic steamed remained quiet with only occasional sales reported. It was stated the stockfeed interests are not inclined to take on supplies in excess of actual requirements. The price was unchanged at $55 per ton, carlots, f.o.b. works.

Castor Pomace—Market held at $25 per ton, carlots, works, with sales not as heavy as noted earlier in the month.

Dried Blood—Sellers sustained the local price at the late advance. Sales were not extensive but $7 per unit of ammonia was the price. Chicago quoted $6.75.

Fish Meal—Absence of important trading left the menhaden market more or less nominal at $134 to $135 per ton, Baltimore area. Buyers at present were not interested in these prices.

Phosphate Rock—Heavy stocks of superphosphate have checked any unusual rock withdrawals for domestic use. The supply position has continued to improve.

Potassium Muriate — A slight gain in shipments was reported by some of the producers owing to several small mixers starting up operations, but the combined movement continued below normal.

Sodium Nitrate—Market position steady with shipments routine and of seasonal dimensions. Supply situation remained comfortable.

Superphosphate — Remained readily available for immediate shipment, both normal and triple. This fall marks the first time in recent years that the supply of triple has shown easement.

*Fertilizer Tag Sales: September**

	Equivalent tons		
	September		Jan.-Sept.
	1953	1952	1953
N. Carolina	45,000	53,000	1,638,000
S. Carolina	35,000	50,000	843,000
Georgia	21,000	29,000	1,235,000
Florida	60,000	97,000	886,000
Alabama	33,000	51,000	954,000
Tennessee	19,000	36,000	490,000
Arkansas	9,000	9,000	371,000
Louisiana	10,000	18,000	259,000
Texas	45,000	54,000	454,000
Oklahoma	27,000	32,000	122,000
Total	304,000	429,000	7,243,000

*Information furnished by the National Fertilizer Association.

Los Angeles Market

Los Angeles.—Market conditions were relatively unchanged over the week. Interest for 16/20 grade ammonium phosphate continued to build up as the spreading season for grain producers approaches. The sales volume of superphosphate was reported off slightly from last year whereas ammoniated superphosphate shows some increase. Current production of blood meal has witnessed nominal trading. Domestic fish meal remained tight with quotations firm at $2.25 per unit of protein. Production of Canadian herring meal good, quoted $2.35 per unit of protein, sacked, delivered California points.

Ruling prices were:—Ammonium nitrate—$88.30 per ton, domestic, f.o.b. Los Angeles. $89.84 per ton, Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$80.14 per ton in bags, 16/20 grade, f.o.b. Los Angeles. $107.64 per ton in bags, 11/48 grade, f.o.b. Los Angeles. Both Canadian material.

Ammonium sulphate—$55.37 per ton in bags, domestic, f.o.b. Los Angeles. $3 less in bulk. Canadian material same.

Blood meal—$5.25 per unit of ammonia at source. Bone meal—$64-$70 per ton, imported, 1/65 meal, c.i.f., Los Angeles Harbor. Domestic—$90-$92 per ton, f.o.b. Los Angeles.

Calcium nitrate—$48 per ton, 15½ percent nitrogen, c.i.f., Los Angeles Harbor.

Pesticides

No unusual activity at present. Scattered sales of DDT are reported at the recent price advance and all the major producers have followed the upward movement with the exception of one who is still withholding quotations. Some sales of cotton dust to Mexico were reflected in the demand for BHC but otherwise the market remained dormant. Exporters of

For Late Market Developments, See Page 4

DDT state that sales have slowed down because foreign buyers are not friendly to the higher prices named and their resistance has held up business. So far the weed control chemicals are passing through the off season at unchanged prices. Greece is in the market for 200 metric tons of 2,4-D but the Agricultural Bank of Greece has restricted sellers to countries in the European payment area and that leaves out the United States. Ordinarily domestic producers of 2,4-D were able to secure this business.

Bureau of Entomology and Plant Quarantine in regard to the pink bollworm states that gin trash inspections, during period October 16-31, in Tennessee, Mississippi, Arkansas, California, and Baja California, Mexico showed negative results. Since finding of first specimen from Duback, Lincoln Parish, Louisiana, four additional pink bollworms have been found from individual samples. In addition, one pink bollworm was found in Claiborne Parish (Reported CEIR, Nov. 6) October 21 and one from Union Parish, October 28. Individual samples being inspected from all three newly-infested parishes in effort to locate infested fields. During the period three new Oklahoma counties outside the regulated area were found infested: Carter, Murray and Coal. Murray and Carter counties adjoin the old regulated area, while Coal County joins Hughes County, where infestation was found for first time last year.

Nickel Products Open-End Policy Set for 4th Quarter

An open-end export quota has been established for the fourth quarter of this year for certain nickel products by the Bureau of Foreign Commerce. At the same time it was announced that the time schedule for filing applications to export all nickel products has been abolished and applications now can be made at any time.

Included among the open-ended nickel products are spent nickel catalyst, nickel scrap, certain primary forms and semi-fabricated forms, nickel and nickel alloy powder, new nickel catalyst, reagent grade nickel chemicals, nickel salts of organic compounds, and nickel salts and compounds not elsewhere classified.

Soil Conditioner Meeting Set

A trade practice conference for the synthetic soil conditioner industry will be held December 10 by the Federal Trade Commission to consider proposed rules for elimination and prevention of unfair methods of competition, unfair or deceptive acts or practices, and other trade abuses.

FOR SALE

PESTICIDE FORMULATIONS

We will make on order, in any concentrate, formulations of the following:

DDT, BHC, TOXAPHENE, ALDRIN, DIELDRIN, HEPTACHLOR, CHLORDANE, LINDANE, MALATHION.

2,4-D, 2,4,5-T, MCP, CHLORO-IPC

ROCK BOTTOM PRICES

Box No. 132

OIL, PAINT AND DRUG REPORTER
30 Church Street, New York 7, N. Y.

All the answers . . .
None of the problems

Makers of insecticides face four problems: (1) The buying of toxicants, (2) leftover stocks, (3) annoying shortages and, (4) costly delays. Many manufacturers of household, cattle, roach, and agricultural sprays, dusts, and aerosols have found MGK formulating service to be precise, prompt and profitable . . . the complete answer to these problems. Write for plans and prices.

Save the Scientific way with MGK

McLAUGHLIN GORMLEY KING COMPANY

1712 S. E. FIFTH STREET • MINNEAPOLIS, MINNESOTA

Geigy Agricultural Chemical Formed as Separate Division

Geigy Chemical Corporation, New York, has announced the formation of Geigy Agricultural Chemicals as a separate division to handle its production and sales of insecticides, fungicides, herbicides, defoliants and fertilizer supplements. Dr. George R. Ferguson, formerly technical director in charge of research and production, has been named president. John G. Plowden, formerly assistant sales manager and for the last two years manager of the western territory in Fresno, Calif., has been named sales manager to replace R. J. Zipse, who has resigned. L. G. Gemmell continues as assistant sales manager and Paul B. Allen has been named manager of the western territory, succeeding Mr. Plowden.

C. C. Alexander, formerly chief entomologist, has been named research manager in charge of research and development at the research laboratory in Bayonne, N. J. Lewis P. Harris, formerly technical director of the agricultural chemicals division of Sherwin-Williams Company and since 1950 manager and plant superintendent for Cotton States Chemical Company, of Monroe, La., joins Geigy as production manager of the agricultural chemicals division. He will be located in Bayonne and will supervise the formulation and control laboratories as well as production operations of Geigy's nine processing plants.

Monsanto Top Organization

—Continued from page 5

Queeny, board chairman, will continue to exercise supervision over the financial aspects of the company's activities.

The new organization will have eight staff departments rather than ten as in the past. The departments will be:— Accounting, advertising and public relations, general development and patent, personnel relations, law, medical, purchasing and traffic, and treasury.

Divisions Being Absorbed

Mr. Thomas explained that for better product alignment and to provide a cohesive basis for future expansion, the Merrimac, Texas and western divisions will be absorbed by other divisions having compatible product lines. The phosphate division will be renamed the inorganic chemicals division and will be headed as before by vice-president J. L. Christian as general manager. It will continue to operate the phosphate division plants at Soda Springs, Idaho; Monsanto, Tenn.; St. Louis; Trenton, Mich., and Anniston, Ala. This division also will operate the Merrimac division plants at Everett, Mass., and Camden, N. J.

The organic chemicals division will be headed by Charles H. Sommer, jr., now general manager of the Merrimac division. This division will continue to operate its plants at St. Louis; Monsanto, Ill.; Nitro, W. Va., and Norfolk, Va., and will take over the operations of the western division's new plant at Avon, Calif.

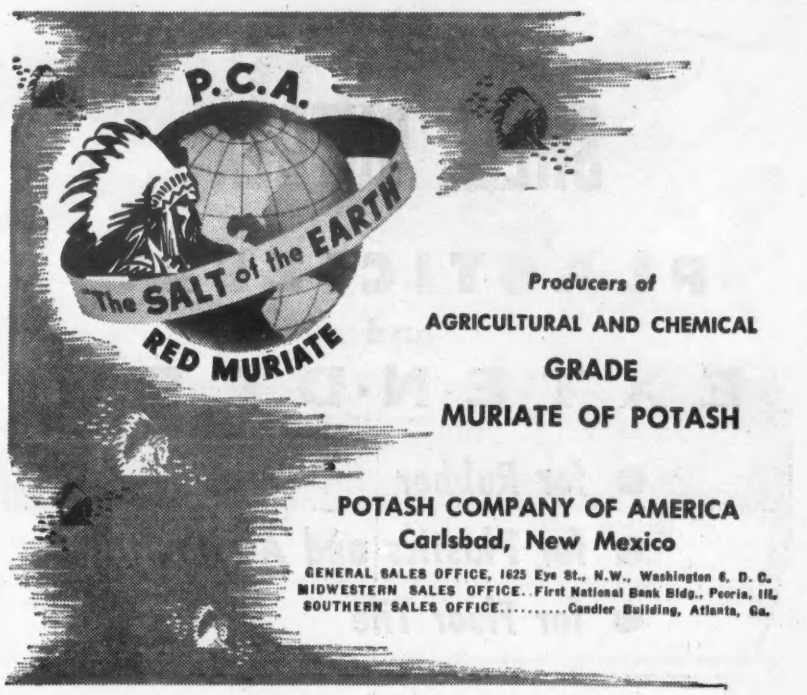
Mares Heading New Division

A new division to further the engineering and research activities of the company will be established under the direction of J. R. Mares, vice-president and currently general manager of the Texas division. This new division will include the functions of the central research department at Dayton, Ohio, the general engineering department at St. Louis, and the engineering sales department of the organic chemicals division.

The plastics division will continue to be under general manager Robert K. Mueller. In addition to plastics division plants at Springfield and Port Plastics, Ohio, this division will operate western division plants at Long Beach, Calif.; Santa Clara, Calif., and Seattle, Wash., and the Texas City plant of the Texas division.

Merchandising, Overseas Heads Continue

The merchandising division will continue under general manager Roy L. Brandenberger and the overseas division will continue under general manager Edward A. O'Neal, jr. Irving C. Smith, new general manager of the western division, will move to St. Louis as assistant to the president and as chairman of the budget committee. Dr. N. N. T. Samaras, director of the central research department, will continue in that capacity as a part of the research and engineering division. William T. Nichols, presently director of the general engineering department, will become assistant to Mr. Hochwalt in the executive offices to work on special projects. All general managers and staff department heads will be located in St. Louis.


P.C.A.
The SALT of the EARTH
RED MURIATE
Producers of
AGRICULTURAL AND CHEMICAL
GRADE
MURIATE OF POTASH
POTASH COMPANY OF AMERICA
Carlsbad, New Mexico
GENERAL SALES OFFICE, 1625 Eye St., N.W., Washington 6, D. C.
MIDWESTERN SALES OFFICE. First National Bank Bldg., Peoria, Ill.
SOUTHERN SALES OFFICE.....Candler Building, Atlanta, Ga.

RANEY CATALYST CO.

Originators and Dependable Suppliers of

RANEY CATALYSTS

Raney NICKEL ®

718 Hamilton National Bank Bldg.
Chattanooga 2, Tenn.

Since 1925 Phones: 6-8616, 3-1617 Cable Address: RANI

Quality Producers Specify:

FERRO

Vinyl Stabilizers

CADMIUM • BARIUM • CALCIUM • ZINC
EPOXY *(Liquid or Solid)*

Paint Driers

NAPHTHENATES • TALLATES • OCTOATES

Fungicides

ISOTROL CN *(Copper Naphthenate)*
ISOTROL ZN *(Zinc Naphthenate)*

FERRO

FERRO CHEMICAL CORPORATION
A Subsidiary of Ferro Corporation
BEDFORD, OHIO

A complete line of . . . vinyl stabilizers, metallic soaps, dispersing agents, fungicides, driers, cobalt compounds, surface active agents.

SHELL DUTREX
PLASTICIZERS
and
EXTENDERS
● for Rubber
● for Plastics and Acrylonitriles
● for Floor Tile

Petroleum Naphthas and Solvents
Base Oils
Paraffin and Microcrystalline Waxes

SHELL

SHELL OIL COMPANY
50 West 50th Street, New York 20, N. Y. ● 100 Bush Street, San Francisco 6, California

announcing
a change in name
FROM
THE NEVILLE COMPANY
TO
NEVILLE CHEMICAL COMPANY

To more aptly relate our corporate name to the ever-growing field which we have served through the years, and to more readily identify the scope of our products and service, we have changed our name.

Needless to say, only the name has been changed, and we hope the new name will come to symbolize the same high standard of quality that has characterized the old throughout the industry.

NEVILLE

NEVILLE CHEMICAL CO.
PITTSBURGH 25, PA.
Plants at Neville Island, Pa., and Anaheim, Cal.

C6

Petroleum Derivatives

Price schedules of the middle distillates dropped fractionally at New York Harbor late last week. Affected were kerosene, No. 2 furnace, and diesel oil.

The general level of aliphatic demand was approximately the same. However, buying interest for heptane and hexane was steadily improving. Heptane sales to adhesives were better. Extraction uses of hexane were the dominant source of increased demand. Calls for mineral spirits were at the same pace as previous weeks. Sales were behind former levels.

Aromatic demand was still quite strong. Producers reported that they have no more toluol currently available than they had in previous weeks. Present discussions in the trade pertained to the possibilities of the market for toluol in the future when government defense goals have been met. Industrial solvent demand was generally considered as not being enough to move all of the toluol produced at high production levels. Consumers found that they were able to extend their orders for xylol beyond previous allotments by producers. Demand has been fairly well satisfied in this market. A good amount of xylol continued to move.

Absence of cold weather over the greater portion of the country allowed surpluses of liquefied petroleum gases to continue to be a feature of the market. Spot sales of propane were still reported below contract prices. A definite swing to colder weather would probably eliminate the surplus butane and propane quickly, a source said.

Microcrystalline waxes were stronger in the past week. Producers were able to meet consumption requirements. Paraffin waxes held a strong position. A few tight spots were noted for certain melting points, while supplies leaned towards a shorter position rather than improvement.

Solvents and Diluents

Heptane—Demand was reported up a bit over levels of previous weeks. Slightly more buying was seen from vegetable oil extractions. Additional demand was also noted from adhesives. Prices held firm.

Hexane—Activity in this market continued on the upward swing. Solvent extraction of vegetable oils has supplied a good outlet for hexane, particularly in the mid-west. The incoming crop was supplying more material for extraction each month. Hexane prices were stable at old listings.

Mineral Spirits—No real change in buying levels has been noticeable here. Sales were reported to be relatively slow all year. A drop in buying interest amounting to about 5 percent was said to have come from activity in water paints. It was added that these latex paints have just about reached their level. In order to keep up buying interest in mineral spirits, it was said, producers were likely to improve their products, particularly where odor was concerned. Closer specifications were felt to be the key to a continued buildup of demand as past years have provided. Prices were firm and unchanged. Supplies were adequate for current needs.

Toluol—Market conditions existing at the present time indicated that there has been no drastic change from the tight supply situation. However, prospects for the future were currently being considered and discussed. It was not definitely known what defense requirements will amount to next year or when stock pile goals will be reached. A cessation of government buying would leave a market which has been in tight supply for over a year with more production capacity than industrial buyers would be able to consume.

The race to increase octane ratings of automotive gasoline which is getting under way might take up any slack left by other decreases in use, some sources felt. Other producers indicated that the gasoline market was so huge in volume compared with solvents that aromatic crudes would be obtained apart from supplies which could be gotten from the solvent market. Thus, the overall effect upon the market would be mollified. and therefore was uncertain.

Xylol—The market for this solvent has not changed too much. A certain amount of easing has taken place in this market. Some consumers have extended their orders, a source said, and producers have been able to meet their needs. Prices were steady at old quotations.

Price Trends

Advanced
None

Reduced
Fuel oil, No. 2 furnace, N. Y. Harbor, ½c. per gal.
diesel, N. Y. Harbor, ½c. per gal.
Kerosene, N. Y. Harbor, ½c. per gal.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
105.35	105.38	105.37	104.13

(*For Current Prices see page 9*)

Lighter Fractions

LPG's—Contract prices of butane and propane have held steady. There has not been enough cold weather to significantly alter the market picture. Surplus supplies of butane and propane currently dominated the scene, keeping spot quotations below contract prices. A definite swing to colder weather would probably eliminate the surpluses, it was added. At any rate, supplies were adequate to handle the expected demand this winter.

Waxes

Microcrystalline — Producers reported that the market for these waxes was stronger during the past week. It was not surprising to have found demand picking up, since November and December were normally good sales periods. One source stated that its production schedules have been stepped up to several shifts to meet the call. Another producer added that it still was able to take care of incoming orders.

Paraffin—Most suppliers agreed that demand for fully refined grades was good. One source stated that demand was tightening up the supply as buying returned to normal after a slow period during the past summer. Another producer reported that buying was going along much the same, while there were tight spots in the supply picture for certain melting point ranges.

Miscellaneous

Fuel Oil—No. 2 furnace oil and diesel oil come down ½c. in New York late last week. Other sources announced that they met the new competitive price initiated by one producer. However, all suppliers had not reported a change by press-time. The resulting range for No. 2 furnace oil was 9½c. to 10c. per gallon in tankcars at New York Harbor, while diesel oil ranged from 9.9c. to 10.4c. per gallon at the harbor.

Kerosene—A price reduction of ½c. at New York Harbor created a new low side of the range of quotations. Listings of various sources were from 10½c. to 11c. per gallon, all sources not having indicated that they would meet competition by press-time.

Petrolatum—Demand was said to be holding up. Producers have been able to meet inquiries with prompt shipment.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended November 7, 1953, totaled 283,815,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 286,401,000 barrels for the preceding week, this represents a decrease of 2,586,000 barrels comprising a decrease of 1,698,000 barrels in stocks of domestic crude and a decrease of 888,000 barrels in stocks of foreign crude.

Los Angeles Petroleum Market

Supplies of solvents and diluents were adequate with demand holding at a good level during the week. Pricewise no changes were reported. Cleaning solvents, including Stoddard, quoted 17.3c. per gallon, 400 gallons or over, ex-tax, f.o.b. Los Angeles Basin area; lacquer diluent quoted 18.3c. per gallon, same basis.

The market for butane and propane witnessed little change. Interest in propane was fair with ample stocks on hand; posting unchanged at 5.9c. per gallon, tankcars, f.o.b. Los Angeles. Call for butane continued steady. Supples were limited. Quotations were firm and unchanged at 6.4c. per gallon, tankcars, f.o.b. Los Angeles.

For Late Market Developments, See Page 4

Chemical Market Research Role of Govt. Detailed

—Continued from page 7

called attention to the various population reports and other data gathered by the bureau pointing more directly to production and marketing needs, citing, in particular, the censuses of manufactures, agriculture, retail and wholesale trade and business services.

Other Census bureau speakers on the panel were Howard C. Grieves, assistant director for economic fields; Maxwell R. Conklin, chief of the industry division, and Henry J. Shryock, jr., assistant chief of the population and housing division.

Dollar Gap Seen Narrowing

If 1953 estimates hold up, the dollar gap will continue to narrow, Samuel W. Anderson, assistant Secretary of Commerce for international affairs, told a panel on foreign trade and investment. World dollar reserves are improving, he continued, but the effect of this is less than if we had easy currency convertibility. Many countries, he said, have controls limiting the import of dollar goods, particularly luxury items. He went on to illustrate the present US foreign trade position by means of a series of three dimensional colored blocks.

Robert E. Simpson, acting head of the office of economic affairs of the Bureau of Foreign Commerce, noted that the chemical industry's foreign investments are well ahead of the all-industry average, particularly in Canada and Latin America. He said that it is unrealistic to expect a rapid, dramatic increase in private US foreign investments.

There is a good long-term opportunity, he explained, but first problems must be solved that go deep into the basic resources and psychologies of many different lands and peoples. Mr. Simpson stressed the close interrelationship of overseas investment and US general trade policy. Sustained, persistent, patient effort is needed by both business and government to solve these problems and realize the opportunity, he concluded.

Reporting Foreign Business

E. E. Schnellebacher, director of the Bureau of Commerce office of intelligence, outlined government facilities and methods for reporting foreign business and agricultural data. He also told of aid the government can offer for the protection of US trademarks and patents abroad, noting that the US keeps a running file on foreign commercial law. He also made reference to Commerce lists of foreign buyers and producers.

Moderating a panel on agricultural economics and their chemical implications, Philip H. Groggins of Food Machinery & Chemical Corporation, New York, cited these two main points:—

1. Agriculture and the chemical industry have much in common. Agriculture is an enormous producer of raw materials for the chemical industry. The wholesale value of farm products (not including cotton and wool) used annually for non-food uses is about $1,000,000,000.

2. Agriculture is a large and growing market for a wide array of chemicals. The value of the 21,000,000 tons of processed fertilizers used in 1953 is estimated at slightly more than $1,000,000,000. This does not include lime, phosphate rock or liquid NH_3, for direct application. The wholesale value of pesticides sold in 1952 was about $250,000,000. In 1953, because of unusual circumstances, the dollar value was considerably less although the volume was about the same.

Panel members participating in the discussions concerning agriculture were Oris V. Wells, Chief of the Bureau of Agricultural Economics; Shelby Robert, BAE market development specialist; Bruce M. Easton, deputy director of the mobilization activities branch of the Production and Marketing Administration, and Sherman E. Johnson, BAE assistant chief for production economics.

Farm-Chemical Market Relations

Mr. Wells pointed out that farmers depend upon the chemical industry to a considerable extent as a market for their products, and they in turn are a growing market for many of the chemical industry's products. The chemical industry, he said, has a challenge to help maintain or improve farm incomes and urban diets by turning out more and better products at lower cost.

Mr. Robert described some of the statistical and market analysis material of interest to the chemical industry, including farm income estimates, farm production estimates, market news reports and the outlook and situation reports.

Mr. Easton reviewed recent trends in the use of chemicals in agriculture, and pointed to the dramatic rise that has taken place in the volume of the past decade. Farmers today are dependent on some form of chemical for practically everything they do from the preparation of the land to the storage of the harvested commodity, he declared.

Plant Food Use in 1952-53

Consumption of plant food materials in 1952-53 was over four times the prewar 1935-39 average and was also nearly double the quantity used at the end of World War II, he noted. Pesticides now represent a $250,000,000 business in the agricultural market; antibiotics have risen to a $150,000,000 business in ten years; synthetic organic weed killers last year reached 71,500,000 pounds.

Mr. Johnson pointed out that the agricultural market for chemicals can keep on growing rapidly if industry can keep on providing more effective materials at lower cost. If cotton farmers had effective chemical weed-killers to use with mechanical cultivation, they could get along with one-fourth the labor they now need, he said. General mechanization, chemical weed control and defoliation might save up to 1,500,000,000 man-hours in producing cotton.

The Manufacturing Chemists' Associa-

Versatility and dependability with controlled high quality

Esso

Petroleum Solvents

Sold in:
Me., N. H., Vt., Mass., R. I., Conn., N.Y., N.J., Del., Md., D.C., Va., W.Va., N.C., S.C., Tenn. Ark., La.

ESSO STANDARD OIL COMPANY

Boston, Mass. • New York, N. Y. • Elizabeth, N. J. • Philadelphia, Pa. Baltimore, Md. • Richmond, Va. • Charleston, W. Va. • Charlotte, N.C. Columbia, S. C. • Memphis, Tenn. • New Orleans, La.

Penn-Drake® Petrolatums proved right by every test...

1878-1953 75th ANNIVERSARY

PENNSYLVANIA REFINING COMPANY
BUTLER, PENNSYLVANIA
Branches: Cleveland, Ohio and Edgewater, N. J.
Representatives in all Principal Cities

AMORWAXES

High Melting Points

A complete series of synthetic waxes covering the melting point range from (83°c) 181.4°F to (205°c) 400°F.

Suggested Field of Application: Plastic compounds, leather packing, polishes, electrical insulation, anti-blocking plating, lubricants, potting compounds

Melting Points 180°F, 240°F, 266°F, 285°F, 350°F, 400°F

Penetrations 100 grams at 77°F 0-4

AMORWAXES
For laminations

AMORWAXES
For cartons

Waxes of All Kinds

For technical information write:

PENNOTEX OIL CORPORATION
29 Broadway, New York City

PETROLATUMS
(Refined to strictly controlled quality specifications)

Quaker State Oil Refining Corp.
WAX DEPT. OIL CITY, PA.

STARWAX
BY
BARECO

SALES OFFICES
1500 South Western Ave.
CHICAGO, ILLINOIS
121 S. Broad Street
PHILADELPHIA, PA.

Available in brown and light amber, Starwax brings the wax formulator a high melting point wax for coatings at a low cost. Now in use throughout the world in protective films on countless products Starwax continues to create possibilities for wax application. 180 min. melting point . . . 14/18 penetration. Write for specifications, samples and prices.

BARECO OIL CO.
BOX 2009 • TULSA, OKLA.

tion is currently concentrating on a drive to bring about an improvement in the public relations of the chemical industry, William C. Foster, MCA president, reported. A permanent staff is being set up in the Washington office of the association to conduct this program, he said.

Mr. Foster also told of the various service committees of the association and their value to the industry, adding that since his appointment as president there has been set up a statistical committee designed to maintain an up-to-date statistical picture of the industry.

Closer cooperation between the chemical industry and government was urged by Norman E. Hathaway, chairman of the chemical and rubber division of the Business and Defense Services Administration, at a panel reviewing chemical expansion programs. He said that the division has a two-fold informational value—both as a receiver and as a dispenser of data—but added that this was directly dependent on industry cooperation.

Organics Expansion Factors

Discussing the organic chemical and drug expansion programs, Leonard Weirich, chief of the organics and drug branch of BDSA's chemical and rubber division, called attention to the following facts in connection with organics expansion:—

1. There has been an increase in capacity since January 1, 1951, of approximately one-fourth as of June 15, 1953, or 125 percent.
2. The anticipated increase in organic capacity by the completion of the goal period is estimated to be one-half the pre-Korea capacity or 150 percent.
3. The increases scheduled by the establishment of the goals represent 86 percent of the total anticipated increase in capacity.
4. Approximately 80 percent of the anticipated (goal and unassisted) expansion through the goal period—January 1, 1951 to January 1, 1955—is supported by accelerated depreciation certificates.
5. The industry will be slightly over-expanded as based upon the goals established provided all scheduled increases are completed including that both assisted and unassisted.
6. The anticipated expansion for the goal period corresponds to a 13 percent per year increase.

Penicillin Goal Noted

As for drugs and pharmaceuticals, he noted that it was necessary to establish only one goal in this field—for penicillin. This goal, he said, provides for an expansion of 240 percent of pre-Korean capacity, 95 percent of which is now scheduled, all assisted by depreciation certificates.

In a discussion of inorganic and agricultural chemical expansion goals, Wesley R. Koster, chief of the inorganic and agricultural chemicals branch of BDSA's chemical and rubber division, took note of the question of whether production and sales will actually rise to the level of anticipated 1955 capacity. "We cannot provide you with the answer to this problem," he declared, "but a few of the facts known to us concerning the expansion program might be mentioned in case they have escaped your attention:—

Inorganics, Farm Chemicals

"1. The ammonia goal is over-subscribed, and the Louisiana, Mo., facility of 30,000 tons per year, is up for sale or lease. Nevertheless several companies are still contemplating new plants. Imports have been substantial in the past twelve months, but domestic industry has already shown some evidence of combatting imports pricewise.

"2. Phosphatic fertilizer expansion is short of full subscription by about 13 percent, and the 1955 goal may be 10-12 percent higher than capacity built by that year.

"3. Tax amortization applications for new or expanded sulphuric acid facilities based on some kind of recovery from a waste or spent sulphur source, continue to be submitted to the Office of Defense Mobilization.

"4. Chlorine expansions somewhat beyond the goal have occurred, but the prospect of commercial chlorine from the sale or lease of the Chemical Corps' Muscle Shoals plant is still a possibility.

"5. Oxygen goal has not quite been taken up, and the extent to which high purity oxygen will be used in steel in the future is not known.

"6. Expansions in soda ash will raise capacity to about 12 percent in excess of the goal.

"7. Pesticides under goals already have considerable capacity that is not being utilized, but some expansions continue to carried out with respect to lindane."

Synthetic Resins Goals

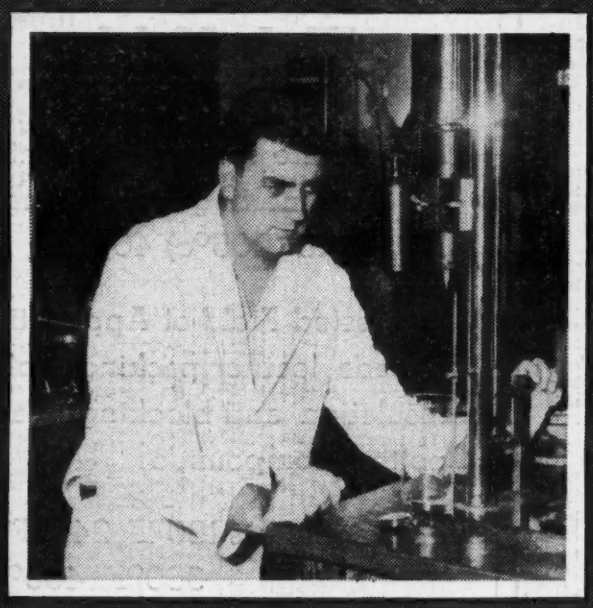
Reporting on the expansion of plastics and protective coatings materials, Russell W. Ehlers, chief of the plastics and protective coatings branch of the BDSA chemical and rubber division, said that the goal for synthetic resins was 77 percent filled as of June 15 of this year. He added that inorganic chemicals, such as titanium dioxide and yellow iron oxide pigments, reached 99 percent and 105 percent of their respective expansion goals as of June 15.

Tokheim Granted Guaranty On Netherlands Investment

A guaranty that receipts from an investment in the Netherlands can be converted into dollars has been extended to the Tokheim Oil Tank & Pump Company, Fort Wayne, Ind., by the Foreign Operations Administration, it was announced November 19. A separate government guaranty protects the firm from loss by expropriation.

The convertibility guaranty insures a maximum of $350,000 in receipts, while the appropriation loss insurance has a top limit of $200,000. Tokheim has organized a subsidiary corporation in Leiden, the Netherlands, to manufacture and sell its products to the Dutch and export markets.

Sonneborn Scrapbook - 1946



Sonneborn First to Develop Test for Ductility of Petrolatum

New York, N.Y., 1946. L. Sonneborn Sons, Inc. has perfected the first practical laboratory test to determine the ductility of petrolatum. This test makes it possible to obtain reproducible numerical values for ductility, an important property in petrolatum—and enables the user to better select the proper petrolatum for his needs.

...centration on your market ...
...the only ...

Achieved by Sonneborn RESEARCH 1903 • 1953

For over half a century, industry of every kind, large and small, has taken advantage of Sonneborn's research and specialization in white mineral oils and petrolatums. More important for you, Sonneborn has the versatility to adapt its experience to the individual requirements and special problems of practically any industry. May we put these unique resources, this highly skilled ingenuity to work for you?

L. SONNEBORN SONS, Inc., NEW YORK 10, N. Y.

Textile and Leather Chemicals

Further weakness developed in potato starch in Maine and prices were again reduced fractionally, while stocks in the local market were maintained at former levels. Production in Maine has increased to some extent, which brought out freer offerings. Consumers, however, limited buying interest to actual requirements, and expect prices to go lower as the season progresses, because of the heavy potato crop. Sulphonated tallow, was advanced sharply as a result of the increased cost of the basic material. Producers reduced sodium hydrosulphite, 1½ cents per pound.

Other materials were held former levels. Consumers continued to restrict demand to actual needs, showing practically no interest in forward requirements. Corn starch and dextrin moved in moderate volume for prompt delivery. Trading in Siamese tapioca flour was more active for prompt delivery, than Brazilian and Javanese because of lower cost. Sago flour was higher for shipment, but stocks on spot were quotably unchanged.

Shipments of rayon and acetate yarn and staple in October by producers totaled 92,100,000 pounds, an increase of five percent over September, but eight percent below 100,500,000 pounds shipped during October last year. Shipments in October comprised 91,100,000 pounds for domestic consumption and 1,000,000 pounds for export. Production of man-made fibers in the third quarter of 1953 was indicated at 386,500,000 pounds, six percent less than the second quarter, but three percent higher than the comparable quarter last year.

Shoe production in 1953 will probably exceed 500,000,000 pairs, it was estimated by the Department of Commerce, against 508,000,000 pairs last year, which was about 40 percent of the world's output. The United Kingdom produced about 142,000,000 pairs and was the only other country to exceed the 100,000,000 mark. This is about 2.8 pairs per capita. The Soviet Union was third was 89,000,000 pairs, a per capita of less than one-half pair. Germany was fourth with 1952 production of more than 70,000,000 pairs Available estimates show that the world's output increased from 896,000,000 pairs in 1930 to 1,000,000,000 in 1940; to 1,200,000,000 in 1949 and to almost 1,300,000,000 in 1952.

Price Trends

Advanced

Tallow, sulphonated, 2c. to 3c. per lb.

Reduced

Potato starch, Maine, 3/10c. per lb.
Sodium hydrosulphite, 1½c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
98.70	98.70	98.73	100.97

(For Current Prices see page 9)

Chemicals

Acetic Anhydride — Consumers limited demand for prompt requirements. Deliveries against contracts were in steady request. Prices were without change.

Bichromates—Withdrawals against contracts moved in good volume. New contracts for next year's requirements were quoted at current prices. Market was unchanged and firm.

Sodium Hydrosulphite—Prices were reduced 1½c. per pound for prompt and later delivery. Carlots declined to 23c. per pound, drums, delivered and 23½c. for lesser quantities. Demand was light and spotty, chiefly for immediate needs.

Sulphonated Oils—Hand to mouth buying was noted for most varieties. Steady increasing cost of tallow has strengthened sulphonated grades and quotations were boosted sharply.

Sizing Materials

Blood Albumin — Market was unchanged and steady. Buying interest was moderate for immediate delivery. Stocks were ample. Prices were held at 65c. to 90c. per pound, as to quantity.

Corn Dextrin—Business was restricted to prompt requirements. Prices were well held at former levels. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79, and white, $8.53, same basis. Less carlots were 15c. per 100 pounds higher.

Corn Starch—Trading was confined to actual needs, with deliveries against former orders moved in steady volume. Prices were unchanged and steady. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots and powder, $7.26, same basis. Less carlots were 15c. per 100 pounds more. Visible corn supply increased 6,064,000 bushels to 32,961,000 bushels for the week ended November 13, compared with 44,054,000 bushels at this time last year, it was reported by the Chicago Board of Trade.

Egg Albumen—This market was unchanged last week and quotations were maintained at the recent decline. Demand was fair for immediate needs. Flake was held at $2.29 to $2.31 per pound, and powder, $2.33 to $2.35 per pound, depending upon quantity. Interest in technical was confined to actual needs. Prices were unchanged from $1.03 to $1.06 per pound, as to quantity and seller.

Egg Yolk — This market remained steady. Stocks were not heavy and maintained at $1.33 to $1.40 per pound, according to quantity and seller. Business was reported light, chiefly for immediate delivery.

Potato Starch — Offers for shipment from Maine were freer and lower but demand was limited. Carlots were reduced to 6½c. per pound, f.o.b. mills, for prompt shipment and at 6¼c. per pound, December. Idaho starch was unchanged at 6½c. per pound, carlots, mills, f.o.b. Fair volume of business was reported for spot stocks. Prices were without change, ranging from 8½c. to 9c. per pound, exwarehouse, according to quantity.

Sago Flour — Shipments from primary sources were firmer and lifted to 6¾c. per pound, carlots, exdock. Spot stocks were quotably unchanged and quiet. Raw was quoted at 7¼c. to 7½c. per pound, and refined, 8¾c. to 9¼c. per pound, exwarehouse, depending upon quantity.

Tapioca Flour—This market was quiet, but steady. Brazilian flour was in limited supply and nominal at 14½c. to 17c. per pound, as to quantity and seller. Javanese flour was inactive, with AA maintained at 8c. to 8½c. and AA, 7½c. to 8c. per pound, exwarehouse, depending upon quantity. More interest was noted for Siamese flour which was moved at lower prices than Javanese.

Tanning Materials

Leather production in September decreased, except for calf and whole kip skins, according to Tanners Council. Output of cattle hide leather in September was estimated at 1,893,000 hides against 1,978,00 in August; calf and whole kip, 839,000 against 790,000; goat and kid skins, 2,236,000 against 2,354,000 and sheep and lamb skins, 2,409,000 against 2,558,000.

Chestnut Extract—Market remained unchanged and steady, despite light demand. Prices were maintained for all grades. Liquid extract 25 percent tannin, was held at 4.4c. per pound tankcars; 5.3c. to 5.65c. barrels, f.o.b. works, depending upon quantity. Powdered extract, 60 percent, tannin, 11.28c. per pound, bags, carlots, and 12c. for smaller quantities.

Cutch—Replacements were well held at 8¼c. per pound, exdock. Trading was affected by scarcity of offerings.

Mangrove Bark—Trading was light and spotty, and restricted to immediate shipment. Primary market were quotably unchanged. East African was quoted at $77 to $78 per ton, exdock; Colombian, $59 per ton, and Ecuadorian, $57.50 per ton, same basis.

Myrobalans—Business was reported slow. Shipments of all grades were held at former levels. Assorted JI's were quoted at $48 per ton exdock; crushed JI's, $61.50 and ordinary $44 per ton, same basis. Solid extract was held at 7½c. per pound, exdock, plus duty.

Quebracho Extract—This market was quiet, but steady, reflecting the firmness of the primary market. Buying interest lacked snap. Solid ordinary was quoted 11 21/64c. per pound, carlots, exdock, and clarified 12 3/16c., same basis.

Valonia — Shipments were offered freely, but trading was restricted to an occasional lot for fill-in needs. Quotations were without change. Cups were quoted at $56 to $57 per ton, exdock, and beards at $75 per ton, same basis. Extract, 62 percent tannin was quoted at 9½c. per pound, exdock, plus duty.

Wattle—Demand continued spotty and for prompt shipment. Market was steady at prevailing quotations. Fair average bark was quoted at $100 per ton, and merchantable, $96.50 per ton, exdock. South and East African extracts, 60 percent tannin were offered at 10c. per pound, exdock, plus duty.

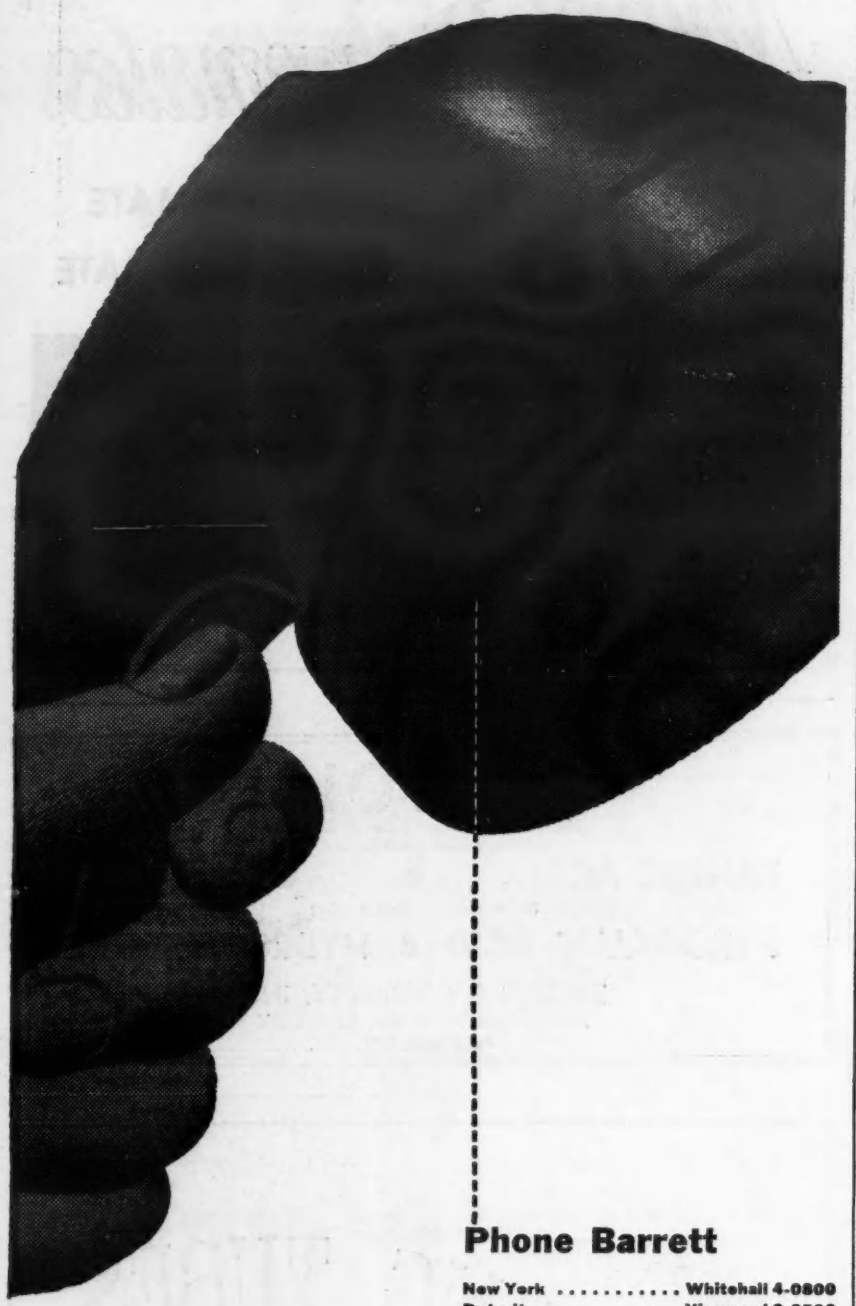
For Late Market Developments, See Page 4

Mutual Bichromates
SODIUM BICHROMATE
POTASSIUM BICHROMATE
MUTUAL CHEMICAL CO. OF AMERICA
270 Madison Avenue New York 16, N. Y.

DRY COLORS — DYESTUFFS
IMPORT EXPORT
FEZANDIE & SPERRLE, 205 Fulton St., NEW YORK 7
Telephones: COrtlandt 7-1460-1461 Cable Address: "Fezan," N. Y.

METOL
Monomethylparaminophenol Sulphate
Registered Trade-Mark
TANNIC ACID • GALLIC ACID
(U.S.P. and Technical Grades)
PYROGALLIC ACID • HYDROQUINONE
ZINSSER & COMPANY, INC.
HASTINGS-ON-HUDSON, NEW YORK
Established 1897

SALES CREATING TUBES
Any type tube to fit your need . . . any size . . . any opening . . . for industrial, household, paint, drug or cosmetic products.
Look for "Standard" in your classified 'phone directory, under "Collapsible Tubes."
Standard
COLLAPSIBLE TUBE CO.
Rochester, Pa.
Offices in Principal Cities



Phone Barrett

New York	Whitehall 4-0800
Detroit	Vinewood 2-2500
Philadelphia	Jefferson 3-3000
Chicago	Bishop 7-4300
Boston	Malden 2-7460
Cleveland	Cherry 1-5943
†Los Angeles	Mutual 7948
St. Louis	Lockhart 6510
Indianapolis	Garfield 2076
Newark	Mitchell 2-0960
†Buffalo	Delaware 3600

† Hi-Flash Solvent not now available at this station.

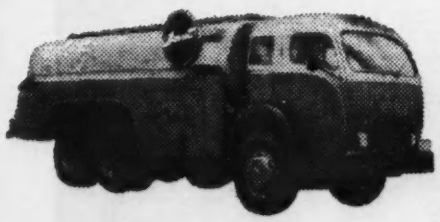
for express tank-truck deliveries of **AROMATIC SOLVENTS!**

Now save time and handling costs!

Get fast, prompt deliveries of—

BENZOL • TOLUOL • XYLOL
HI-FLASH SOLVENT

when you need them!



For speedy, flexible service and prompt, dependable deliveries of high quality aromatic solvents—call the Barrett office nearest your plant! There are Barrett distribution points in 11 key industrial areas.

And remember—we also deliver Dibutyl Phthalate and Elastex* 28-P Plasticizer (DOP) by Tank-Truck, too!

Barrett

BARRETT DIVISION
Allied Chemical
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

*Reg. U. S. Pat. Off.

Coal Chemicals

Price quotations of coaltar products continued on the same basis as previous weeks. There did not seem to be a dramatic change in any of the individual markets. Buying was still largely on the basis of immediate needs. There were a few isolated instances which indicated a slight pickup in activity and one or two spots where supplies were tight. But, for the most part, no significant change in consumer buying policies was anticipated before the end of the year, in which time inventory problems were expected to temper buying.

Benzol was in a relatively easy supply situation currently. Producers in most areas had material to offer. Supplies, however, were not up to the point where there was any great concern over them. Another aromatic, xylol was in an improved supply status. Xylol being a smaller volume item than benzol or toluol, did not receive as much attention or concern as the other solvents. Toluol was still reported as an item in tight supply. Nonetheless there were signs from many directions than the pressure was coming off. A good deal of the outcome hinged upon defense buying policies for next year.

Some additional tightening was reported in tar acids. The markets for cresols and cresylic acid saw good buying interest from cresylic resins, aircraft engine carbon removers, and tricresyl phosphate. The naphthalene market continued in a slow fashion. Natural phenol moved slightly better than synthetic material. A supplier of the synthetic said November sales were better than the previous month. Pyridin was still soft. Creosote movement was fair.

Phthalic anhydride was in ample supply. Maleic anhydride and fumaric acid were at the same level as previous weeks. Ortho and para anisidins saw a little added interest. Orthodichlorobenzene was in tight supply. Monochlorobenzene was still relatively slow.

Operations in the steel industry during the week ending November 21 were scheduled to be at 91.3 percent of theoretical capacity, according to the American Iron and Steel Institute. This was equivalent to 2,057,000 tons of ingots and castings, compared with 2,081,000 tons the week before, 2,142,000 tons one month ago, and 2,212,000 tons one year ago.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
114.59	114.59	114.61	113.50

(For Current Prices see page 9)

Basic Products

Benzol—Most sources reported that there was plenty of benzol around to meet any consumer needs which might arise. Producers continued to move a relatively good volume of the aromatic to fulfill orders. There were occasional local soft spots in the picture which generally equalized themselves in the normal course of events. Most producers found themselves with a little inventory on hand, whereas they had been shipping directly from production just a short time ago. In certain isolated instances, producers were still shipping right from production, a source stated.

Although the majority of producers were increasing their stocks currently, a serious inventory problem does not seem to have developed yet. Reduced demand from rubber, insecticides, and dyestuffs were behind the easy supply position of this important basic material. Prices have held to previous listings. No revisions were anticipated now.

Creosote—Demand has not been as strong as many producers would like to see. Most suppliers were in the position of being able to handle more business. A fair amount of material was moving at prices previously established. Revisions in the schedules were not likely to come about now, it was felt. Production and handling costs were such that a reduction would not be looked for at this time. And, the lack of dynamic buying interest was not conducive to price increases.

Cresols—Demand for the meta xylenol fractions continued to run ahead of supplies. Producers were receiving a good call from cresylic resins, and from tricresyl phosphate for these tar acids. Metaparacresol moved as fast as it was made to meet inquiries from TCP. Additional business for the acids was derived from the aircraft engine cleaner business. Cresols of higher ortho content were among the slower moving grades in the market. However, some sources reported a general tightening of the tar acid picture so that all production was being sold without difficulty.

Cresylic Acid—Domestic producers reported that business for this tar acid was sustained at a good level. Demand from cresylic resins has held to a strong pace. There was also a good movement of acid to aircraft engine cleaner business. One source stated that there has been some tightening up of the overall supply of these and other tar acids. Certain fractions have been tight all along, while other fractions did not receive as much call. However, it was said that even the less "popular" grades were now soldup. Sustained use of petroleum acid in engine cleaners has kept many of these fractions in tight supply too. Hence, the entire market picture looked rather firm.

Imported ADF acid sold in relatively the same volume as it has for the past several months. Suppliers moved a fair share of the imported cresylic to engine cleaner business and cresylic resins. One source stated that it was in a soldup position for the rest of the year, otherwise it would be able to move more acid. Quotations were still within the range of 75c. to 90c. per gallon, smaller quantities selling at the outside of the range.

Naphthalene—Market conditions for crude material continued to indicate slow activity. A relatively steady volume of 78-degree moved to contract customers; but producers were able to handle a good deal more demand than there has been in this market for many months. Domestic prices have held firmly to previous quotations.

The low level of activity in the naphthalene market has been the result of increased producer capacity domestically, a continuous supply of low-priced imported naphthalene, and reduced buying on the part of consumers. Current inventories were a deterrent to increased buying in specific instances. A higher degree of activity in phthalic anhydride was looked to as the answer to difficulties in this market. Phthalic has been moving at a fairly good volume, but it has not come up to the levels of expanded production. If producers are able to move the intermediate next year, naphthalene will move automatically.

Imported hot-pressed material was relatively unchanged. Prices ranged from 3¼c. to 3½c. per pound. However, the trend of imported 78-degree material's prices was not quite clear at this time. During very recent weeks there were some reports of a slight weakness of the 3¼c. price. No reductions were brought about in this market by that lack of strength. Now, during the past week, it was reported that firmer prices were likely after the first of next year. Quotations of 4c. in the first quarter were not unlikely, it was said. Present indications were that a good quantity of European material would be offered next year.

Phenol—The market for this material has not significantly changed in the past week. Some sources said that natural material was moving better than synthetic phenol. One producer of USP grade reported that its sales were not too bad, even adding that November demand increased slightly over the previous month. Prices of technical and USP material have held to former quotations. Ample sup-

Production Estimate

Estimated output of coal chemicals recovered from cokeoven operations during the week ending November 21, was as follows:—

Ammonia liquid, NH_3	lbs.	962,312
Ammonium sulphate	lbs.	34,780,694
Benzol	gals.	3,326,849
Coaltar	gals.	15,259,514
Creosote oil	gals.	852,333
Naphthalene, crude	lbs.	2,350,790
Pyridin, refined	lbs.	24,745
Toluol	gals.	654,372
Xylol	gals.	174,591

For Late Market Developments, See Page 4

For high-quality NAPHTHALENE

you can count on Koppers!

...REFINED AND CRUDE GRADES AVAILABLE

FOR INDUSTRIAL USES, Koppers makes refined naphthalene that is exceptionally pure and is excellent for all syntheses of its derivatives. It is produced in crushed, chipped or flake form—with melting point not less than 79.6°C. Shipments are made from our plant at Kearny, N. J.

Koppers Crude Naphthalene is also produced in three standard grades; the melting points are 74°C., 76°C., and 78°C., respectively.

Write for full information, including current prices.

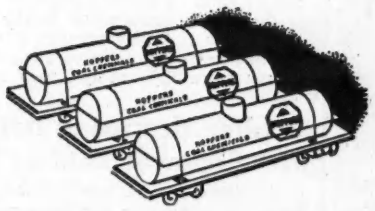
KOPPERS COMPANY, INC. *Tar Products Division* PITTSBURGH 19, PA.

Crude naphthalene is produced at:

Chicago, Illinois
Woodward, Alabama
Follansbee, West Virginia

KOPPERS Naphthalene

SHIPPED IN TANK CARS



BARRELS

BAGS

plies were available to take care of the current demand.

Even though phenolic resins have recovered from summer setbacks, buying has not been completely reflected in the phenol market. It was felt that consumers were working down stocks built up in July and August, before end of the year inventories come along. The resins business is currently going along at a good clip. If producers don't see increased demand from this outlet, then at least they can look for a steady demand for a while.

Pyridin—Movement of refined 2-degree material was still quite slow. Producers only sold a fraction of what they could produce. Nonetheless, it was felt that consumption levels have not fallen enough to cause the current slow conditions. Pyridin is still a versatile product and a wide number of end-uses continued to require its solvent properties.

While the market was in extremely tight supply, the old story of overbuying was in action. Consumers ordered more than their production needs required so that they could have an inventory cushion against a time when they might not be able to get it at all. When reduced inquiries due to discontinued uses and inroads of substituted pyridins eased the tension on the market, magnified demands of most consumers subsided to a point which was closer to their actual consumption levels. Just as the action has a snowballing effect in tightening a market, a reversal of the situation diminishes demand with similar rapidity.

Consumers found that they could get the refined material when they needed it and the clamoring ceased. Then consumers turned to look at their stockpiles accumulated in three years of heavy buying. Buying interest in the market fell below actual consumption levels. As an example, one consumer of 60,000 pounds per year was said to have built up an inventory of 120,000 pounds. A two year supply! This was not an isolated instance. In addition, some of the pyridin currently being used in consumer's processes is being reclaimed and re-used, a trick learned during the days of extreme shortage.

Producers currently were pinnning their hopes on the versatility of the material to provide a new market outlet to take up the slack. Meanwhile prices have remained steady at $1.15 per pound.

Toluol—Most trade observers indicated that there was not likely to be an abrupt change in the tight market position right away. Producers continued to report that defense requirements were taking the lion's share of current production, which left little toluol for industrial consumers. It was generally felt that government buying during at least the first quarter would be as heavy as it is now, or only slightly under present allocations.

Opinions diverge when the question of what turn the market will take after stockpile goals for TNT and avgas are reached. First, it is not definitely known whether nitration grade toluol requirements will be gradually reduced as the goal is approached, although many producers were hoping for that to take place. Some sources felt that an increased octane rating race coming to the surface in automotive gasoline will give petroleum toluol a boost, thereby cutting the overall supply of surplus material when defense buying is cut back. Opposing this view, it was said that gasoline volume is so large compared with solvents, that crude aromatics would be sought outside of the supply which could be obtained from the solvent market.

Xylol—Pressure on this market has eased up quite a bit in the past several weeks. Most consumers found little difficulty in obtaining what they needed for immediate use. Producers were moving all of their production along. Some sources reported that they did not have enough material to meet all of the inquiries. However, the general market picture approached a balanced status between supply and demand. No drastic change in this market was anticipated so long as toluol remained short.

Intermediates

Dinitrochlorobenzene—A source reported that activity in this market has been fairly good. Sales were sustained at a satisfactory level. Prices were firm. Supplies were sufficient to meet consumer reuirements.

Fumaric Acid—There has been no significant change in the volume of fumaric used since the recent price cuts. However, it was felt that the reduction might induce more demand from polyesters next year. Although this market never has done a large volume business, some trade sources added that the acid may derive greater benefit from the lower prices than maleic

REPUBLIC TOLUOLS

NITRATION—COMMERCIAL

REPUBLIC STEEL REG. U.S. PAT. OFF.

ALSO

BENZOLS 1°—2°

XYLOLS 3°—5°—10°—Commercial

AMMONIUM SULPHATE

CRUDE NAPHTHALENE

Specify Niles Steel Containers for your Packaged Items.

REPUBLIC STEEL

CORPORATION

General Offices • Cleveland 1, Ohio

BRANCH OFFICES IN ALL PRINCIPAL CITIES

Shipping Points: Birmingham, Alabama • Canton, Ohio • Chicago, Illinois Cleveland, Ohio • Gadsden, Alabama • Massillon, Ohio • Warren, Ohio Youngstown, Ohio

WE INVITE YOUR INQUIRIES FOR

Ammonium Sulphate • Benzol • Toluol
Xylol • Solvent Naphtha • Naphthalene
Sodium Phenolate • Tar Bases • Crude Still Residue

ALAN WOOD STEEL COMPANY
Coke and Chemicals Division
CONSHOHOCKEN, PENNA.

anhydride will receive by increased buying from polyester resins. Fumaric was said to have been brought down to a more economic quotation for use in polyesters than it had been at previously.

Maleic Anhydride—The market appeared virtually unchanged from activity levels of former weeks, a source said. So far, there has been no stimulation from the recent price drop, a source indicated. It was added that there might be some reflection of increased use in polyesters due to the lowered prices by next year. This anhydride has a good potential outlet in the growing use of polyester resins which are a factor in fiberglas reinforced plastics. Structural uses of reinforced plastics such as industrial piping and uses as storage tanks are developing fast, but are still in their formative stages with respect to potential volume.

Monochlorobenzene—A source reported that there continued to be a little activity in the market from a few DDT producers. Since this market was relatively inactive for most of the year, a slight interest seemed larger by comparison. A real surge in insecticide production was not anticipated at this time, especially in view of the season. Prices of mono were steady at previous quotations. Supplies were adequate for demand.

Orthoanisidin—A little pickup in the number of calls for this intermediate has been noted in recent weeks. Producers were able to meet the increased call. Prices were firm and unchanged.

Orthodichlorobenzene — Producers reported that ortho was currently in tight supply due to a heavy sustained demand from aircraft engine cleaners. Prices held firmly to their old listings. Contracts for carbon removers at government air bases have brought a strong demand to this market for the second time this year. The current spurt of activity started since the end of September and has accounted for a good volume of ortho since that time.

Para-anisidin—There has been a little pickup in demand for ortho and para anisidins. Current quotations stood at previously established levels. Adequate supplies were available to take care of the immediate requirements of consumers.

Phthalic Anhydride—Ample supplies of this intermediate were available for current demand requirements. Increased production facilities have eliminated shortages of phthalic and were rated as being capable of keeping up with buying interest for some time. A source said that total production next year would probably not be sold. Further expansion of phthalic demand is anticipated in the long run, but it was felt that present buying interest has not caught up to output capacity. Prices were firm at previous listings.

Coaltar Measuring Device Development Told by Reilly

A new revised coaltar base enamel quantity calculator has been produced by Reilly Tar & Chemical Corporation, Indianapolis, Ind. The calculator gives estimates for quantities of enamel required in pounds per thousand feet and gallons per mile on two grades of primer. It also gives estimates for coupling compounds required for mechanical couplings on pipe of normal size from 2 inches through 48 inches. Tables of recommended temperatures of application for enamel are given and estimates for drying time on primer are tabulated.

Information on quantities required for hand application of coaltar base enamels to irregularly-shaped engineering structures is given. On the reverse side of the calculator, a Mannheim type slide rule is available for multiplication, division, etc., covering the calculations needed to estimate the total amount of material required on any pipeline coating job. The slide rule has C, D, CF, DF, A, and B scales, and is provided with a plastic hairline slide. Calculators can be obtained by writing to Reilly at 1615 Merchants Bank Building, Indianapolis 4.

Anthraquinone Dyestuff Put In Arnold, Hoffman Co. Line

Arnold, Hoffman & Co., Providence, R. I., has added "Ahcovat" brown 4-R double paste to its line. An homogeneous anthraquinone dyestuff, the material is said to have several unique qualities not previously found collectively in any other comparable vat dyestuff for dyeing and printing.

IRON FILINGS
(GROUND CHEMICAL IRON)
NEW YORK: 74 TRINITY PLACE
CONNELLY, INC.
SINCE 1876
CHICAGO: 1525 EAST 53rd ST.

Package Appeal... Product Protection...

when you use
G.P.&F.
STEEL SHIPPING CONTAINERS

● Use a container that both *sells* and *protects* your product. G. P. & F. standard lug-cover pails (shown above) are sturdy, air-tight and leak-proof. Add sales appeal, too, with attractive solid colors — or lithographed in your own design. Sizes 2½ to 7 gal. Ask us about other G. P. & F. Containers, such as dome-top utility cans, flaring pails, double compartment pails, pouring pails and drums.

GEUDER, PAESCHKE & FREY CO.
301 NORTH 15TH STREET • MILWAUKEE 1, WISCONSIN

DUTY FREE
IMPORTS
XYLOL
•
NAPHTHALENE
•
99/100%
CRESYLIC ACIDS
•
ALPHA PICOLINE
•
PYRIDINE
•
PITCH
Other Related Products
DIRECT IMPORTERS
TAR RESIDUALS Inc.
420 LEXINGTON AVENUE
NEW YORK 17, N. Y. • LE 2-9414

EMPIRE
"THATS GOOD"
COAL—COKE
COAL TAR
LIGHT OIL
CARBOLIC OIL
SULPHATE of AMMONIA
•
DEBARDELEBEN
COAL CORPORATION
2201 First Ave., N. • Birmingham 3, Ala.
Phone 3-9135

For your information
PITTSBURGH
COKE & CHEMICAL CO.
is composed of these divisions:

★ COAL CHEMICAL DIVISION
★ ACTIVATED CARBON DIVISION
★ AGRICULTURAL CHEMICAL DIVISION
★ PROTECTIVE COATINGS DIVISION
★ NEVILLE COKE DIVISION
★ NEVILLE PIG IRON DIVISION
★ GREEN BAG CEMENT DIVISION
★ NEVILLE CONCRETE PIPE CO.
★ PLASTICIZER DIVISION
★ FINE CHEMICALS DIVISION

P C&C C
WAD 4524

Grant Building, Pittsburgh 19, Pa.

Consulting Chemists and Engineers

ASSOCIATION OF CONSULTING CHEMISTS AND CHEMICAL ENGINEERS, INC.

50 East 41st Street, Room 82 — New York 17, N. Y. LExington 2-1130

A Clearing House — *For Consultants*

Reg U. S. Pat. Office

When in need of a consultant address the Association
No charge for this service

The Membership Located from Coast to Coast Comprises Specialists in All Fields

Cable: CHEMANENGS, New York

R. S. ARIES & ASSOCIATES

Chemical Engineers & Economists

Commercial Chemical Development

Process Analysis ● Market Research
Technical & Economic Surveys
Sale and Licensing of New Products and Processes
Complete Chemical and Drug Plants

480 Madison Ave. New York 17, N. Y.
ELdorado 5-1430

BODE-LOWRY AND ASSOCIATES

CHEMICAL MARKET RESEARCH AND SALES DEVELOPMENT

80 E. JACKSON BLVD., CHICAGO

BJORKSTEN RESEARCH LABORATORIES

Sponsored Industrial Research

MADISON, WIS. .....323 W. Gorham St.
CHICAGO, ILL. .....1525 E. 53 St.
NEW YORK, N. Y. .....50 E. 41st Street
HOUSTON, TEXAS .....1011 Waugh Drive
WASHINGTON, D. C. .....412 Fifth St., N.W.

BOSTON RESEARCH DIVISION

United States Testing Company, Inc. — Chemical Research and Development

857 Boylston Street, Boston 16, Mass.

BOYER & SEBASTIAN

JOHN W. BOYER — R. L. SEBASTIAN, Ph.D.

Technical presentations to the Government Bureaus.
Surveys of Federal Research and Development Programs.
Special statistical and economic data.

1740 K. STREET, N. W. WASHINGTON 6, D. C.

Telephone: EXecutive 3-2285

RESEARCH AND PRODUCT DEVELOPMENT

Oils, coatings, detergents, Plastics. Organic and drug analyses. Testing work.

COLBURN LABORATORIES, INC.

Research Chemists

732 S. Federal St. Chicago 5, Ill.

The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER

Tell them about yours

SPECTROGRAPHIC ANALYSES

Qualitative and Quantitative Since 1936

Micro and Semimicro analyses of metallics; conventional and metallurgical analyses, metallography, metal failures investigated, heat treating consultants, photomicrographs, Jominy Hardenability, physical tests.

W. B. COLEMAN & CO.

9th St. & Rising Sun Ave. Philadelphia 40, Pa.

DI CYAN & BROWN

Consulting Chemists

12 East 41st Street, New York 17, N. Y.
MUrray Hill 5-0011

CONSULTANTS in DRUGS and COSMETICS

New Drugs; Product and Patent Development in Drugs and Cosmetics; Label Preparation for Conformance to FDA requirements.

EVANS RESEARCH & DEVELOPMENT CORPORATION

One of the largest independent research organizations in the country Specialized help in fundamental and applied research, product and process development . . . in such fields as

Organic Chemistry	Organoleptic Evaluations
Chemical Processes	Physical Chemistry
Foods and Beverages	Biologicals and Pharmaceuticals
Explosives	Waste Disposal
Product Development	
Natural Products	

SEND FOR BOOKLET "O"
MU 3-0071

250 E. 43rd St. New York 17, N. Y.

EXPERIMENT INCORPORATED

Chemical Consulting Research and Development
Model Shop Facilities

Write for Brochure

An Organization to Serve You

P. O. Box 1-TC Richmond 2, Va.

Fitelson Laboratories, Inc.

Consulting and Analytical Chemists
J. Fitelson, Ph.D., Director

Foods, Spices, Oils, Drugs, Cosmetics

Specialist on labeling, sanitation and chemical problems connected with F.D.A. procedures.

254 W. 31st Street, New York 1, N. Y.
ORegon 5-8549

FOOD RESEARCH LABORATORIES, INC.

FOUNDED 1922

Bernard L. Oser, Ph.D., Dir.

RESEARCH—ANALYSES—CONSULTATION

Biological, Nutritional, Toxicological Studies for the Food, Drug and Allied Industries

48-14 33rd St., Long Island City 1, N. Y.

EMILE C. FREELAND

Consultant to LATIN AMERICAN AND TROPICAL INDUSTRIES

Raw and Refined Cane Sugar
Cane Sugar By-Products
Vegetable Oils and Lard, Oleomargarine
Agricultural Products and Methods
Economic Surveys, Development, Marketing
Factory Design, Supervision, Modernization

SE HABLA ESPANOL

1158 Fifth Ave., New York 29, N. Y.
TRafalgar 6-1109

The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER

Tell them about yours

HUDSON LABORATORIES, Inc.

Consulting Chemists and Bacteriologists
Albert B. Guiteras, Ph.D., Director

Testing, Analysis, Formulation, Research
BACTERIOLOGY, CHEMISTRY, TOXICOLOGY
Foods, Drugs, Cosmetics
Disinfectants, Antiseptics, Sanitizers

117 W. 13th Street, New York 11, N. Y.
ALgonquin 5-6290

LAWALL & HARRISSON

CHEMICAL ● BACTERIOLOGICAL PHARMACOLOGICAL

Analyses ● Consultation Research

FOOD AND PHARMACEUTICAL PROCESS ENGINEERING

Div. O, 1921 Walnut Street
Philadelphia 3, Pa.

LEBERCO LABORATORIES

Hormone Assays — Biological Assays
Pharmaceutical and Cosmetic Research

Sterility Tests ● Toxicity Studies

Send for information concerning our services

125 Hawthorne St., Roselle Park, N. J.

The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER

Tell them about yours

MOLNAR LABORATORIES

Consulting, Testing and Research
Specializing in Organic Synthesis, Harmone Assays, Clinical Studies, Product Development and Control, Toxicity and Dermatitis Tests and Disinfectant Testing and Formulation.

Member A. C. C. & C. E.

211 E. 19th St., New York 3, N. Y.
GRamercy 5-1030
Cable Address: Molchem

THE ORTHMANN LABORATORIES, INC.

Consulting Analytical & Research Chemists

For the Leather & Allied Trades

Aug. C. Orthmann, President
922 NORTH FOURTH STREET
Milwaukee 3, Wisconsin

ANALYSTS CONSULTANTS SPECTROSCOPISTS

PHILADELPHIA TESTING LABORATORIES

900 W. Venango Street
Philadelphia 40, Pa.

EST. 1865

W. S. PURDY COMPANY

Analytical & Consulting Chemists

TESTING OF PETROLEUM OILS WAXES AND RELATED PRODUCTS

Bayway Terminal Bldg.
c/o Charles Martin & Co.
Elizabeth, N. J.

Phone ELizabeth 3-3894

REGO LABORATORIES

CONSULTING CHEMISTS & CHEMICAL ENGINEERS

Over half century of collective experience
Dr. W. W. LEWERS, Ph.D., Dir.

Detergents, Chemical Specialties, Waxes, Emulsions, Polishes, Paints, Synthetics, Cosmetics, Market Surveys, Plant Design.

120 Liberty Street — Telephone: New York 6, N. Y. — COrtlandt 7-8323

THE SCHEPP LABORATORIES

CHEMICAL RESEARCH
PRODUCT DEVELOPMENT OR IMPROVEMENT

Industrial—Agricultural—Biochemical

Wm. J. Schepp, F.A.I.C., Director
Member A. C. C. & C. E.

21-23 Summit Ave. Fairlawn 6-1212
East Paterson, N. J.

SEIL, PUTT & RUSBY, INC.

Established 1921
Earl B. Putt, President
Stephen S. Voris, Ph.D., Chief Chemist

Experts in analyses of drugs, essential oils, spices, rotenone and pyrethrum and other organic insecticides, flavors, alcoholic liquors, toilet preparations, proprietaries and special formulae.

16 E. 34th St., New York 16, N. Y.
Phone MUrray Hill 3-6368

LOUIS L. SHAPIRO

CHEMICAL CONSULTANT

72 Orange Street, Brooklyn 1, N. Y.
TRiangle 5-7715

SPECIALIST—Glycol Esters, Fats, Oils, Stearic Acid, Fatty Acids, Glycerine, Waxes, Emulsifiers, Protein Fertilizers, Tallow Rendering, Packing House By Products, Soaps, Cosmetics, Distillation, Dowtherm, Process Engineering, Testing, Research.

J. L. K. SNYDER, Ph. D.

Specializing in Management Problems, Product Development, Distribution, and Sales Promotion in the Chemical, Pharmaceutical and Nutrition Fields.

220 East 42d Street — Telephone: New York 17, N. Y. — MUrray Hill 2-1156

R. STECKLER LABORATORIES

8300 Harvard Ave. Cleveland 5, Ohio

● *Product Development, Evaluations*
● *Consultation and Research*
● *Market and Application Research*

Specializing in synthetic resins, coatings, high polymers, polymerization, adhesives, plastics, oils, varnishes, etc.

The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER

Tell them about yours

STILLWELL & GLADDING, INC.

130 Cedar Street, New York 6, N. Y.
Analysis — Inspection — Sampling

Chemicals, drugs, fats, oils, fertilizer, insecticides, glycerine, soaps, solvents, waxes, etc.

For Over 80 Years

RESEARCH LABORATORIES

FOSTER D. SNELL, INC.

29 West 15th Street
New York 11, N. Y.

WA 4-8800

TESTING and FORMULATION of WAXES, PAINTS, VARNISHES
COMPLETE ANALYTICAL SERVICES
DRUGS, FATS, OILS, INSECTICIDES
CHEMICAL SPECIALTIES DEVELOPMENT
BACTERIOLOGY TOXICOLOGY
VITAMIN ASSAY
RESEARCH

TECHNICAL ENTERPRISES, INC.

CHEMISTS ENGINEERS CONSULTANTS

Process Development and Process Engineering

Complete Chemical and Drug Plants

31 South St. WHitehall 3-1544
New York 4, N. Y. Cable: Redniss, N. Y.

UNITED STATES TESTING COMPANY, INC.

1415 Park Ave., Hoboken, N. J. — Port Authority Bus Terminal, 625 Eighth Ave., New York 18, N.Y.

TESTING — RESEARCH

Chemicals	Soaps and Detergents	Metals
Drugs	Fats and Oils	Plastics
Foodstuffs	Waxes	Textiles
Paint, Varnish and Lacquer	Cosmetics	Ceramics
Insecticides	Dyestuffs	Leather
	Paper	Rubber
		Cement

BRANCH LABORATORIES

Boston, Providence, Philadelphia, Memphis, Chicago, Dallas, Los Angeles, Denver

Established 1880

The BIGGEST MARKET for CONSULTATION SERVICES is among the readers of OIL, PAINT AND DRUG REPORTER

Tell them about yours

EMERSON VENABLE*

AND ASSOCIATES

Consulting Chemists & Engineers

Pa. Registry No. 12606

PHYSICS
CHEMISTRY
ENGINEERING
TOXICOLOGY
PUBLIC HEALTH
METALS and ORES
CONTRACT RESEARCH
PROCESS and PRODUCT DEVELOPMENT

*Member—A.C.C. & C.E.

HI-land 1-8045
6111 Fifth Avenue Pittsburgh 32, Pa.

ROGER WILLIAMS

Technical & Economic Services, Inc.

● ENGINEERING ECONOMICS
● MARKET RESEARCH
● PRODUCT EVALUATION

Write for "Profit Evolution"

148 East 38th Street, New York City 16
Murray Hill 5-5257

Bids Wanted

Disinfectant, 1,424 gals. germicide and fungicide, liquid, Chicago, Denver, San Francisco, and Franconia, Va., inv. NY-3J-51855, Nov. 30, Gen. Services Adm., Fed. Supply Service, 911 Walnut St., Kansas City 6, Mo.

Drugs, misc., acetylcholine chloride, ammonium acetate, crystal, boron nitrite, calcium boride, etc., 128 items, inv. 42, Dec. 7, Contracting Officer, Dugway Proving Ground, Toole, Utah.

Methyl bromide, 2,081 1-lb. cans, inv. 7, Dec. 11, Contracting Office, Richmond Quarter Depot, Va.

Paint, 1,750 gals. oil, interior, flat wall, inv. 3-G-37670-R, Nov. 25, 900 gals. interior gloss enamel, 3,000 gals. paint, oil, interior, non-penetrating, flat, read mixed, inv. 3-G-37664-R, Nov. 25, Gen. Services Adm., Business Service Center, 7th & D Sts., S.W., Washington 25, D. C.; 40 gals. gloss enamel, 1,000 gals. interior oil paint, inv. 26, Dec. 9, Contracting Office, Fort Sill, Okla.; aluminum paint, varnish, metal primer, Louisville, Ky., Huntington, W. Va., Nashville, Tenn., Kansas City, Mo., inv. CIVENG-62, Dec. 4, Corps of Engineers, Louisville District, 830 W. Bdwy., P. O. Box 59, Louisville, Ky.

Potash muriate, 4,352 tons, 50% K20 minimum, f.o.b. Pusan, Korea, inv. ENG-184-B-91, Dec. 7, Corps of Engineers, Chicago Procurement Office, 223 W. Jackson St., Chicago 6, Ill.

Trichlorethylene, 123,755 gals. tech., type II, inv. 69 B, Nov. 27, N. Y. Chem. Procurement District, 180 Varick St., N. Y., N. Y.

Trisodium phosphate, approx. 80,000 lbs. tech. (phosphate cleaner), granular, flake or crystalline, inv. 2B-3510-2-R, Nov. 30, Gen. Services Adm., Business Service Center, 7th & D Sts., S.W., Washington 25, D. C.

Ammonia Group Elects

—Continued from page 5

must not only be able to take care of emergencies, but first must prevent them. He said the first requisite is to have good facilities for handling ammonia and then to conduct monthly inspections to assure that they are in good condition. He urged distributors to keep their customers informed on replacement of valves, hoses and other fittings needed in the direct application of anhydrous ammonia to farm crops.

Pointing out that this year and next will see a considerable expansion in anhydrous ammonia facilities, C. J. Brown, sales manager of Grace Chemical Company, Memphis, Tenn., looked for a temporary stabilization in the industry when this expansion is completed. However, he stated that the agricultural ammonia industry has attained a measure of maturity from the growing pains of its rapid expansion which should be very helpful to its future continued healthy and vigorous development.

Vitro Corp. Adds Littel

Edward G. Littel has been appointed assistant to the president of Vitro Corporation of America, New York, and affiliated companies, according to an announcement by J. Carlton Ward, jr., president. Mr. Littel will have offices in Washington, D. C.

Stanolind Moves to Acquire Carthage Gas Synthesis Unit

Stanolind Oil & Gas Company, Tulsa, a subsidiary of Standard Oil Company (Indiana), has signed an agreement with the Reconstruction Finance Corporation leading to Standolind's possible acquisition of the gas synthesis plant of Carthage Hydrocol, Inc., at Brownsville, Tex.

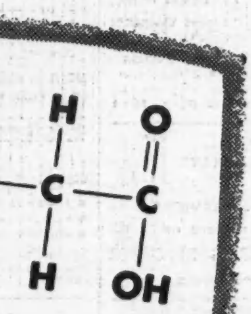
Guy Gabrielson, president of Carthage Hydrocol, stated that the pact provides that Stanolind will be allowed to make any studies it may think necessary in connection with the plant. If on the basis of these studies, Stanolind decides it wants to acquire the property, the accord with RFC provides that the Tulsa firm will acquire the stock and assume the obligations of Carthage Hydrocol.

"ulcer insurance" for the P.A.

ONE of the many worries of the Purchasing Agent is the problem of a dependable source of supply in times of shortage. McKesson provides adequate supplies to its regular customers no matter what market conditions may be. Another reason why it pays to order from McKesson.

CHEMICAL DEPARTMENT
McKESSON & ROBBINS
INCORPORATED
NATIONWIDE DISTRIBUTORS OF HEAVY AND FINE CHEMICALS
44 STRATEGICALLY LOCATED WAREHOUSES

AVAILABLE FROM DU PONT
Hydroxyacetic Acid



ECONOMICAL ORGANIC ACID

Hydroxyacetic acid is a low-cost organic acid offering economy plus safety in critical operations such as pH control. Featuring low volatility and lack of odor, it is miscible in all proportions with water and many water-soluble organic solvents.

AVAILABLE as a 70% technical solution, Du Pont Hydroxyacetic Acid is shipped in tank cars or barrels. In tank cars you can order 6,000 gallons (60,000 lbs., 70% solution) or 10,000 gallons (100,000 lbs., 70% solution). Wooden barrels contain 50 gallons, average net weight 490 to 500 lbs.

E. I. du Pont de Nemours & Co. (Inc.), Polychemicals Dept., Room 6111, Wilmington 98, Delaware.

DU PONT
REG. U.S. PAT. OFF.
Better Things for Better Living . . . through Chemistry
POLYCHEMICALS
DEPARTMENT
AMIDES • ALCOHOLS • ESTERS • ORGANIC ACIDS
SOLVENTS • RESINS

Drugs and Fine Chemicals

Following the coming on stream of a new synthetic alcohol producing plant the week before last, ethyl alcohol price schedules were reduced 5 cents per gallon last week. Isopropyl alcohol prices, always sensitive to changes in ethyl alcohol quotations, were cut 4 cents per gallon later in the week. Existing synthetic alcohol production capacity was reportedly increased some 25 percent by the newly opened facilities. Synthetic production capacity now stands at approximately 23,000,000 gallons, thus cutting even more deeply into that portion of the country's output met by fermentation alcohol. Fermentation alcohol thus has grown less important as a source of supply but nevertheless should continue to be an important factor in the market. Consumption of blackstrap molasses by fermenters continued to decrease and has forced blackstrap producers to intensify their efforts to find new markets and expand current markets for their product. With consumption of cattlefood off as a result of the slump in cattle production, molasses prices may continue to decline thus enabling fermentation alcohol producers to buy molasses at lower than current levels. This would put them into a position to meet more competitive market conditions, an eventuality which appears certain.

Barbital and barbital sodium, were reduced 50 cents per pound last week. The reduction came after a prolonged period of price inactivity. The move was expected to stimulate consumer interest, according to trade sources. The medicinal creosotes were all advanced 25 cents per pound. The increase was said to reflect increased production costs. These compounds have not changed in price for almost three years, it was noted, a period during which inflation has boosted labor and raw materials costs appreciably. Guaiacol crystals, liquid and carbonate were also advanced. A situation parallel to the creosotes had prevailed in the case of these items, according to producers. Guaiacol crystals and carbonate were advanced 25 cents while guaiacol liquid was increased 15 cents per pound.

In the commodity market, cocoa butter continued to show considerable strength. Argols reflected a very strong trend at the source. Substantial production from primary sources has been diverted to other countries while supplies from secondary sources have been small. Prices were very firm with the market here largely nominal since offerings have been priced quite high. Imports of Japanese crude iodine continue to come in, priced slightly below Chilean and domestic crudes. The market in crude iodine was only fair, reflecting the drop in potassium iodide consumption, which goes into cattle foods.

Alcohol—Alcohol prices were reduced 5c. per gallon last week in a move which was initiated following the coming on stream of a new synthetic plant in the preceding week. The new plant has a reported production capacity of 125,000 gallons a day of 192 proof ethyl alcohol. Existing synthetic alcohol production capacity was boosted approximately 25 percent with the opening of the new plant according to reports.

Last week's price cuts were the direct result of this boost in alcohol production capacity. Prior to the opening of the new unit, existing facilities had proved ample to meet current needs. Consequently, the alcohol price picture, in coming months was expected to become increasingly competitive. Alcohol consumption, while good at present, has not been overwhelming. Indications are that alcohol consumption should continue at about the same rate in the immediate future.

Meanwhile, alcohol production by fermentation producers has continued to decrease in view of increasing synthetic production and the more competitive market situation. The Department of Agriculture recently stated that a continued high rate of usage of molasses in the production of alcohol was unlikely. Total utilization of alcohol this year was expected to reach only 261,200,000 gallons compared to 273,100,000 gallons in 1952 and 343,800,000 gallons in 1951. The large difference in alcohol consumption totals between this year and 1951 can be accounted for by the fact that the RFC has been out of the alcohol buying market for some time. With the RFC alcohol butadiene plants all closed and scheduled to be sold or leased to private interests, the alcohol industry could not expect any future alcohol consumption in that direction, it was noted, barring a national emergency. Butadiene production from alcohol is considerably more expensive than that made from petroleum, it was also pointed out.

Last week's price cuts affected all grades of alcohol; pure, specially denatured and completely denatured. A change in differential was made for drum carlots and less than carlots with the result that the drop in the drum carlot price amounted to 4c. per gallon while the less than carlot drum differentials were reduced 3c. per gallon and the price spread down to 1 drum amounted to 6c. rather than the 5c. spread that had been in effect previously.

The current schedule on 190 proof, tax free alcohol, was 43c. per gallon in tankcars, 56c. on drum carlots and 61 to 67c. per gallon in less than carlot drum quantities.

The Alcohol and Tobacco Tax Division of the Bureau of Internal Revenue, Treasury Department, on November 13, released data on the supply, production, withdrawals, and stocks of ethyl, completely denatured and specially denatured alcohol during the month of September, 1953, in comparison with September, 1952.

Production

	Gallons 1953	1952
†Ethyl	28,995,018	36,438,531
*Completely denatured	62,996	54,546
*Specially denatured	18,020,095	16,931,576

Withdrawals

†Ethyl, tax paid	2,217,885	2,057,328
tax free	33,880,701	31,780,162
*Completely denatured	59,715	63,328
Specially denatured	18,257,051	16,734,845

Stocks

†Ethyl	65,273,691	87,429,794
*Completely denatured	25,908	26,112
*Specially denatured	6,525,916	7,299,735

*Wine gallons. †Proof gallons.

According to the Alcohol and Tobacco Tax division, materials used in industrial alcohol plants in September, 1953, and September, 1952, were as follows:—

	Pounds 1953	1952
Corn and corn products	6,076,370	8,693,114
Rye and rye products	.....	.....
Malt and malt products	407,426	1,084,395
Wheat and wheat products	4,677,348	1,659,020
Sorghum grain and sorghum grain products	.....	6,120
Other grain	76,190	475,542
Total grain	11,237,334	11,924,181
Ethylene gas	11,128,331	8,987,980
Other materials	.....	230,213

	Wine gallons 1953	1952
Molasses	6,968,381	12,399,180
Ethylene sulphate	13,407,371	15,109,787
Sulphite liquors	21,911,100	22,830,000
Other materials	3,985,179	3,211,696
†Products used in redistillation	5,888,312	2,771,917

†Proof gallons.

Argols—The market in argols was reported to have a very strong upward trend. Supplies from abroad have been quite limited due to a variety of factors. A large proportion of foreign production has been diverted to other countries, according to trade sources. Prices were largely nominal at the present time as far as sales to this country are concerned. Sales to consumers abroad have been reported as being well above $20 per 100 kilos. The immediate outlook is for a continued trend in this market. There have been some supplies coming in from secondary sources but this has not amounted to much.

Barbital—In the first price change in almost three years, barbital and barbital sodium prices were reduced 50c. per pound last week. The move was expected to stimulate additional consumer interest for these compounds. The current price schedule on barbital, USP, was $4.50 in 100 pound lots. The sodium salt was pegged at $4.75 to $4.77, on the same quantity basis.

Castor Oil—Imports of castor beans and

For Late Market Developments, See Page 4

Price Trends

Advanced

Creosote carbonate, NF, 25c. per lb.
Wood, beechwood, 25c. per lb.
hardwood, NF, 25c. per lb.
Guaiacol, crystals, 25c. per lb.
liquid, NF, 15c. per lb.
Carbonate, 25c. per lb.

Reduced

Alcohol, ethyl, 190-proof, 5c. per gal.
Isopropyl, 4c. per gal.
Barbital, USP, 50c. per lb.
Sodium, USP, 50c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
88.50	88.49	88.53	92.79

(*For Current Prices see page 9*)

castor oil at New York and Philadelphia were as follows:—

	Pounds	
	Beans	Oil
Last week	58,050	926,000
Previous week	714,150	610,000
Corresponding week, 1952	3,156,300	3,724,000
Total this year	99,669,600	107,416,900
Corresponding period, 1952	107,243,150	68,760,550

Creosote — The medicinal creosotes were advanced in price last week. The price boost, the first in years, was attributed to the accumulation of increased production and raw material costs. Creosote carbonate and creosote beechwood and hardwood, were upped 25c. per pound. The current schedule on creosote carbonate ranged from $3.05 to $3.26 in bottles and carboy packages. Creosote, beechwood was pegged at $1.60 to $1.65 on the new schedule while creosote, hardwood, was quoted at $1.30 to $1.35 per pound, in similar packages.

Glycerin—Demand for refined grades of glycerin was said to be running at good levels. Seasonal influences have had some stimulating effect on glycerin consumption, it was noted, particularly in the drugs and cosmetics fields. The market for crude glycerin was said to be quite strong with most of the Argentine crude bought up well into next month. Prices on refined glycerin were quite firm and expected to continue steady in the immediate future. Prices on crude soaplye glycerin were reported at 21c. while the saponification material was priced at 23c., in tankcars.

Stocks at the end of September totaled 55,668,000 pounds compared to 54,856,000 pounds on hand at the end of August and the 39,585,000 pounds on hand at the end of September last year. Glycerin disappearance during September aggregated 19,098,000 pounds compared to 19,291,000 pounds during August and the 19,656,000 pounds during September, 1952. Disappearance of glycerin exceeded production by 627,000 pounds in September and 2,584,000 pounds in August. The cumulative total for the January-September period this year showed disappearance exceeded production by 7,896,000 pounds compared to 17,521,000 pounds during the corresponding period in 1952.

Guaiacol—Guaiacol crystals were advanced 25c. per pound last week. Guaiacol liquid was upped 15c. per pound while guaiacol carbonate, NF, VII, was increased 25c. over previous levels. The price advances were the first changes in these compounds in almost three years and were said to have been necessitated by higher production costs. The new schedule on guaiacol crystals was $2.10 to $2.15 per pound, in tins and drums. The liquid was quoted from $2.30 to $2.40 in drums and carboys while guaiacol carbonate, NF, VII, ranged from $3.40 to $3.45 per pound.

Iodine—Demand for crude iodine was said to be running at fair levels, on the whole. A serious source of concern, however, has been the drop in stockfood consumption, with its direct depressing effect on the consumption of potassium and other iodides used in these feeds. Supplies of crude iodine were reportedly more than ample for current requirements. Japanese crude continued to come into this country priced a few cents under the Chilean and domestic crudes. The reappearance of Japanese crude iodine in the domestic market has cut considerably into consumption of both Chilean and domestic crudes, according to some trade sources and has been an important factor in determining current market conditions, it was said.

Isopropyl Alcohol — Isopropyl alcohol prices were reduced 4c. per gallon last week, in an across the board price cut. The action came on the heels of a 5c. drop in ethyl alcohol prices and was said to have been directly influenced by that action. The current schedule on isopropyl alcohol was as follows:—91 percent, 37½c. per gallon, in tanks; 95 percent, 39¾c., and 99 percent, 42c. per gallon. The usual differentials prevailed on drum carlot and less than carlot quantities.

Bristol-Myers Picks Dr. Elvers For Medical Department Position

Bristol-Myers Company, New York, has appointed Dr. Walter Barton Elvers, a dentist, to an executive position in its medical department. Dr. Elvers will be associated with Dr. George L. Wolcott, physician and company medical director, and will be responsible for planning, placing, supervising and interpreting clinical research studies conducted for Bristol-Myers in the dental field. Dr. Elvers activities will deal with the company's two anti-enzyme toothpastes and the company's medicated prescription toothpowder containing penicillin. He will also be concerned with dental uses of two of the company's products, "Bufferin" and "Sal Hepatica."

Heyden Appoints Aude Manager of Fords Plant

Robert M. Aude has been appointed manager of Heyden Chemical Corporation's Fords, N. J., plant, Simon Askin, president, has announced. Previously Mr. Aude had been associated with Monsanto Chemical Company, St. Louis, Mo., since 1939. From 1951 to 1953 he was general superintendent of Monsanto's Port Plastics plant at Cincinnati, Ohio. From 1947 to 1951 he was general superintendent of transportation and materials at Monsanto's plastics division, Springfield, Mass., after serving in various production and supervisory capacities from 1939 to 1947.

Mrs. Rider Is Honored

Mrs. Lois W. Rider, assistant secretary of Tilden Company, New Lebanon, N.Y., an employee of the firm for fifty years, was guest of honor at a party given by her fellow employees last week to mark her half-century with the company. Mrs. Rider was presented with a television set and later was guest of honor at a small dinner party given by W. Gordon Cox, president of the firm, and Mrs. Cox.

NITROGEN DIVISION ALLIED CHEMICAL

METHANOL AND FORMALDEHYDE

(37% and 45% Solutions)

Available for Immediate Shipment

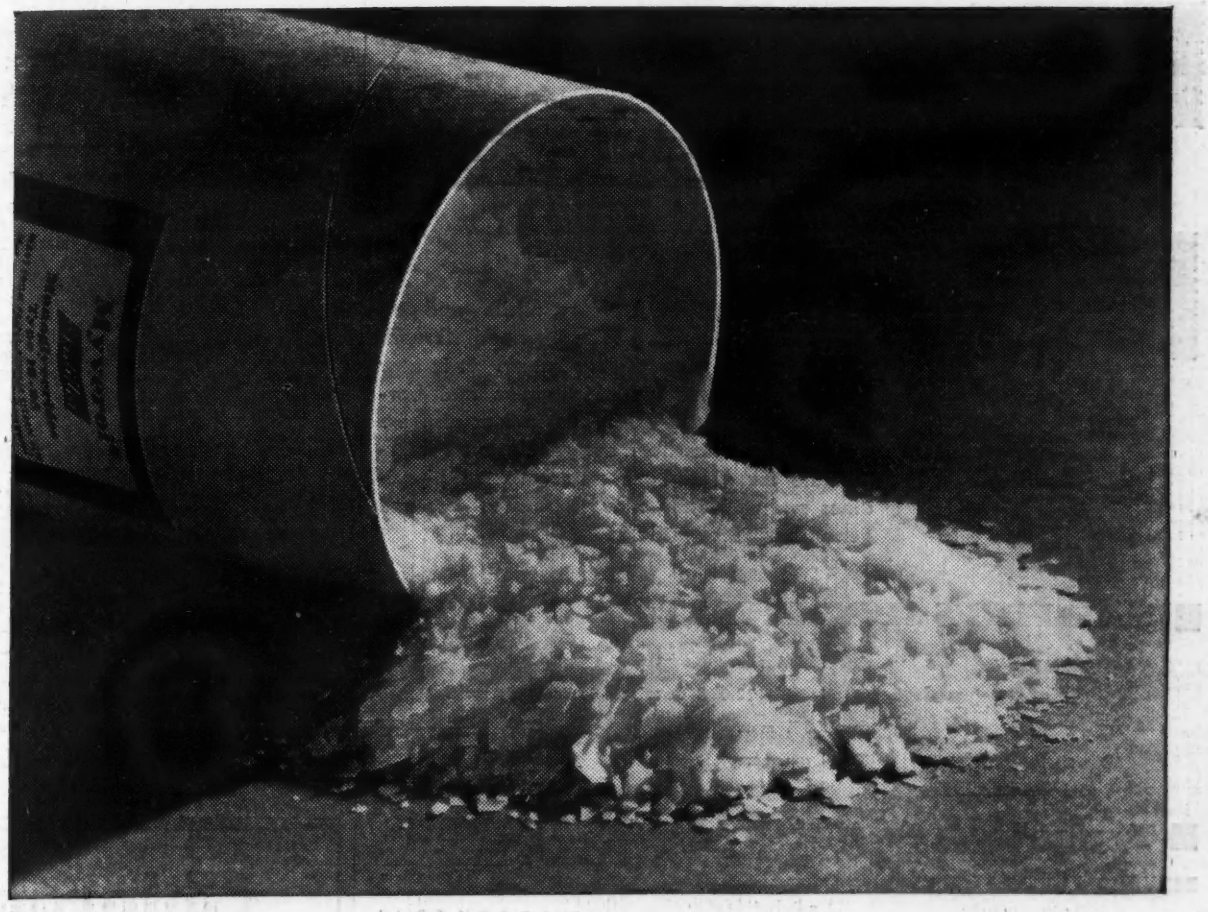
TANK CARS—TANK TRUCKS

Nitrogen Division

ALLIED CHEMICAL & DYE CORPORATION

40 RECTOR STREET, NEW YORK 6, N. Y.

SOUTH POINT, OHIO • COLUMBIA 1, S. C. • ATLANTA 3, GA. • RICHMOND 19, VA.
HOPEWELL, VA. SAN FRANCISCO 3, CALIF.



This is molecularly distilled glyceryl monostearate

These pure white flakes are Myverol® Distilled Monoglycerides, Type 18-05, made from triple-pressed stearic acid.

Molecular distillation is what makes this glyceryl monostearate so uniform, so stable, and so bland. It is neutral and contains no residual catalyst soaps.

An efficient non-ionic emulsifier that meets N. F. standards, this is an ingredient of the highest quality for creams, lotions, lipsticks, ointments, and other products based on a water-in-oil emulsion.

Costwise, there is a story involved in the 90% monoester content of this product that will appeal to the purchasing agent's sense of the rightness of things. We'll tell you about it and send a free sample if you'll write *Distillation Products Industries,* Rochester 3, N. Y. Sales offices: New York and Chicago • W. M. Gillies and Company, Los Angeles and San Francisco • Charles Albert Smith Limited, Montreal and Toronto.

distillers of monoglycerides from natural fats and oils

DPi

Also . . . vitamins A and E . . . more than 3500 Eastman Organic Chemicals for science and industry

Distillation Products Industries *is a division of* Eastman Kodak Company

PROCTER & GAMBLE
Gwynne Building, Cincinnati 2, Ohio
Commerce Building, 155 East 44th Street
New York 17, N. Y.

Glycerine
ALL GRADES

9 CONVENIENTLY LOCATED
PRODUCING AND REFINING PLANTS
ASSURE PROMPT SHIPMENTS AND DELIVERIES

Cyanoacetamide

CYANOACETAMIDE (both a nitrile and an amide) is another Kay-Fries intermediate with a cyano-activated methylene group. It is now used in the syntheses of vitamins and barbiturates. Potentially its usefulness can be expanded. It has been suggested as an intermediate for special resins, substituted piperidines and pyridones, new pharmaceuticals and general organic synthesis.

■ KAY-FRIES SPECIFICATIONS . . .

purity	99.0% min.
melting point	119.0°-122.0°C (meniscus to complete melt)
ash	.05% max.
solubility	1 gm. completely soluble 9 gm.dist.H_2O

■ Typical reactions of CYANOACETAMIDE

REDUCTION

$CNCH_2CONH_2 + 2H_2 \xrightarrow{\text{catalyst}} NH_2CH_2CH_2CONH_2$
amide of β-alanine

DEHYDRATION

$CNCH_2CONH_2 \xrightarrow{\text{catalyst}} CNCH_2CN + H_2O$
malononitrile

CONDENSATIONS

$2CNCH_2CONH_2 + RR'C{=}O \xrightarrow{\text{catalyst}} RR'CCH(CN)CONHC(=NH)CHCONH_2 + H_2O$
ketone or aldehyde — substituted piperidine

$CNCH_2CONH_2 + RCOCR'HCOR'' \xrightarrow{\text{catalyst}} RC{=}C(CN)CONHCR''{=}CR' + 2H_2O$
diketone — substituted pyridone

TECHNICAL DATA BULLETIN AVAILABLE

Write or Phone

American-British Chemical Supplies, Inc.
Selling Agents For
KAY-FRIES CHEMICALS, INC.
180 Madison Avenue, New York 16, N. Y. • MUrray Hill 6-0661

Dodge & Olcott Labs Shown at Press Party

John L. Casullo, president of Dodge & Olcott, Inc., New York, was host at a cocktail party for the press last week to introduce the company's newly constructed laboratory facilities to the industry. Held on the fourteenth floor of the Dodge & Olcott Building, the party was attended by approximately seventy members of both trade and consumer press, and by D&O executive, technical and sales personnel.

The nine new labs, two of which were still under construction, were open and guests were invited to tour at will through the departments of particular interest to their readers. The new facilities include a product development department, as well as new laboratories for work on specific problems in flavors for the food, confectionery, beverage and pharmaceutical industries, and perfume bases for cosmetic and industrial application. Another lab, still under construction, is for organic synthesis, and still another for aerosol testing.

Givaudan Holds Reception

Upwards of 300 leading personalities from the perfume, cosmetic and allied industries gathered at the University Club in New York for the annual fall reception and cocktail party of Givaudan-Delawanna, Inc., November 12. The party was held during a visit to America of Andre Givaudan. A few days after the reception, Mr. Givaudan left the United States on his return trip to Europe.

Takamine 100th Birthday Marked

The hundredth anniversary of the birth of the late Dr. Jokichi Takamine, founder of Takamine Laboratory, Clifton, N. J., was celebrated last week at his birthplace, Kanazawa, Japan. Among those attending the birthday ceremonies were Mrs. Eben T. Takamine, president of the laboratory and widow of Dr. Takamine's younger son, and Homer C. Fritsch, executive vice-president of Parke, Davis & Co., Detroit, Mich., and a member of the Takamine Laboratory board.

Glass Container Shipments: Sept.

Total shipments of narrow-neck glass containers in gross during September were 6,659,143, compared with 6,392,907 in August, according to the Bureau of Census. In this category, the amount used for medical and health supplies was 1,024,427 in September, compared with 1,044,987 in August; chemicals, 745,047 in September, compared with 768,173 in August; and toiletries, 599,129 in September, compared with 596,702 for August.

Total shipments of wide-mouth glass containers in gross during September were 3,912,534, compared with 4,252,700 in August. In this category the amount used for medicinal and health supplies was 331,995 in September, compared with 285,805 in August; chemicals, 150,418, compared with 154,879 in August; and toiletries, 120,970 in September, compared with 120,600 in August.

BERKSHIRE

BORON
MERCURIALS
CARBAMATES
ZIRCONIUM CHEMICALS
VANADIUM CHEMICALS
AGRICULTURAL MAGNESIA

BARIUM CHLORIDE
BARIUM CARBONATE
BARIUM OXIDE
BARIUM PEROXIDE
BARIUM HYDRATE
BARIUM SULPHATE, USP X-RAY
BLANC FIXE
POTASSIUM NITRATE, REFINED
POTASSIUM NITRATE, AGRICULTURAL
POTASSIUM PERSULPHATE
AMMONIUM METAVANADATE
AMMONIUM PERSULPHATE
SODIUM PERBORATE
SODIUM CHLORITE
EPSOM SALTS USP AND TECHNICAL
ZINC CHLORIDE
ZINC AMMONIUM CHLORIDE

BERKSHIRE Chemicals Inc.
GRAYBAR BUILDING
420 LEXINGTON AVENUE • NEW YORK 17
LExington 2-5959 • "BERKSKEM" New York

LEVER BROTHERS COMPANY
Producers and Refiners of
GLYCERINE
390 Park Avenue New York, N. Y.

Chlorophyll . . .
for pharmaceutical and industrial use
NATIONAL CHLOROPHYLL & CHEMICAL COMPANY
LAMAR, COLORADO
Sales office — 350 East 35th Street, New York 16, N.Y.
Phone: MUrray Hill 3-1288

PARA AMINO BENZOIC ACID USP
SODIUM PARA AMINO BENZOATE
PUROCAINE, INC. Manufacturing Chemists
Hockessin, Del.

Carey
MAGNESIA
Oxides and Carbonates Light and Heavy—Tech. and U. S. P. Quality

Have you considered the advantages of Carey Pelletized Oxide of Magnesia packed in Polyethylene Bags — comparatively dust-free, with greater activity, longer package life?
THE PHILIP CAREY MFG. COMPANY
Cincinnati 15, Ohio

Antibiotic Product Placed On the Market by Lederle

A new antibiotic "wonder drug" for a wide range of bacterial and rickettsial infections has been placed on the market by Lederle Laboratories Division, American Cyanamid Company, Pearl River, N. Y.

The new drug, "Achromycin," is known to scientists as tetracycline and belongs in the same chemical family as "Aureomycin" chlortetracycline. Clinical trials have shown the drug to have fewer side reactions and greater stability than the older related antibiotics. Achromycin also has an increased ability to penetrate body tissues and fluids. It will be used in the treatment of a wide range of infections, such as pneumonia, meningitis, osteomyelitis and the like, it was said. Like other antibiotics, "Achromycin" will be sold only on the prescription of a physician. At present it is being packaged in three forms:—Capsules, spersoids and intravenous.

Obituaries

Hamilton B. Bush

Hamilton B. Bush, joint managing director of W. J. Bush, Ltd., London; and a director of W. J. Bush & Co., New York and of W. J. Bush, Ltd., Toronto, died November 10 in London. He was fifty-six years old. Mr. Bush had been with the company for thirty-three years. He was a grandson of the founder.

Russell A. Cowles

Russell A. Cowles, former executive in many brass and copper industries, died last week in New York. He was eighty years old. From 1933 until his retirement in 1948 he was an executive in the sales division of Phelps Dodge Copper Products Corporation.

Dr. Edward M. Frankel

Dr. Edward M. Frankel, consulting chemical engineer and for many years director of the research laboratory of West Virginia Pulp & Paper Company, died November 19 in New York. He was sixty years old. During World War I Dr. Frankel was associated with a group of scientists who worked on the use of dessicated meat and substitutes for aspirin and initiated work on vitamin tablets.

Frederick Platte

Frederick Platte, assistant budget director of American Cyanamid Company, New York, died November 14 in Montclair, N.J. He was fifty-seven years old. Mr. Platte had been associated with American Cyanamid for six years. Prior to that he had been treasurer and controller of Sharpe & Dohme Company Philadelphia.

Howard A. Schlieder

Howard A. Schlieder, a member of the executive staff of Revere Copper & Brass, Inc., died November 15 in Danbury, Conn. He was fifty-five years old. Mr. Schlieder was first employed by Michigan Copper & Brass Company, Detroit, in 1925. Three years later the company merged with Revere and Mr. Schlieder became treasurer of the Michigan division. In 1931 he became credit manager of the company's New York district sales office, and later became the company's general purchasing agent.

Arthur C. Schoenewaldt

Arthur C. Schoenewaldt, a founder and partner in Schmitz-Schoenewaldt-Turner Company, New York, died in Brooklyn, N. Y., Nov. 18. He was sixty-two years old. Mr. Schoenewaldt began his career with Merck & Co., Rahway, N.J., and afterwards was vice-president of George Uhe Company, New York. At the time of his death he was also chairman of S. S. T. Corporation, an affiliate of Schmitz-Schoenewaldt-Turner.

True Maxwell Avery, vice-president of Union Bag & Paper Corporation, New York, and inventor of numerous improvements for bag-making machinery, died November 16 in Glens Falls, N.Y. He was seventy-one years old.

P. Calvert Cissel, operator of American Disinfectant Company, Washington, D.C., died November 10 in Bethesda, Md.

John Otis Hoge, president of United Safeway Company, died November 18 in New York. He was forty-four years old.

Dr. Werner Kaufmann, former president of Kupfer Bros. Company, New York, died November 10 in St. Petersburg, Fla. He was forty-six years old.

George A. Laird, a former mining engineer, died November 17 in Mount Kisco, N.J. He was eighty years old.

Joseph Laughlin, manager of the Pittsburgh, Pa., office of Rose Exterminating Company, died in that city October 30.

Harry J. March, vice-president, director and general counsel of Signal Oil & Gas Company, died November 15 in Balboa, Calif. He was fifty-four years old.

William J. Mason, sales manager of Henningsen, Inc., New York, died November 14 in Lynbrook, N.Y. He was fifty-seven years of age. Mr. Mason had been associated with the company for twenty-five years.

Delfin A. Pupo, Cuban Commissioner of Agriculture in the United States and Canada, died November 15 in New York. He was seventy-seven years old.

Carl Scholz, former president of the American Mining Congress, died November 15 in Charleston, W. Va. He was eighty-one years old. Early in his career Mr. Scholz, was associated with the Bureau of Mines.

Leonard M. Wilson, secretary of Pan American Petroleum & Transport Company, New York, and its affiliate, American Oil Company, died November 18 in Houston, Tex. He was fifty-nine years old.

how! YOU CAN OBTAIN from 1 source

And . . . as always . . . THE MATHESON CO. carries the most diversified line available of COMPRESSED GASES and GAS REGULATORS

ALL THE CHEMICALS NORMALLY USED IN THE LABORATORY

Send for our new 8½"x 11" catalog of over 100 pages with 3911 items.

C&B

MATHESON COLEMAN & BELL
DIVISION OF THE MATHESON CO., INC.
Manufacturing Chemists
EAST RUTHERFORD NEW JERSEY NORWOOD CINCINNATI OHIO

The Complete List of REAGENT, INORGANIC AND ORGANIC CHEMICALS, STAINS, SOLUTIONS

FAIRMOUNT CHEMICAL CO., INC.
600 FERRY ST., NEWARK 5, N.J.

Thiosemicarbazide
Semicarbazide Hydrochloride

DRY BROMINE

now available in quantity . . . for use in nickel or monel pipes and valves

Now you may have it immediately . . . bromine with less than *30 parts per 1,000,000 of water*, unusually low chlorine content, too! This new extra-dry bromine will not corrode nickel or monel materially, thus eliminating need for glass pipes or valves.

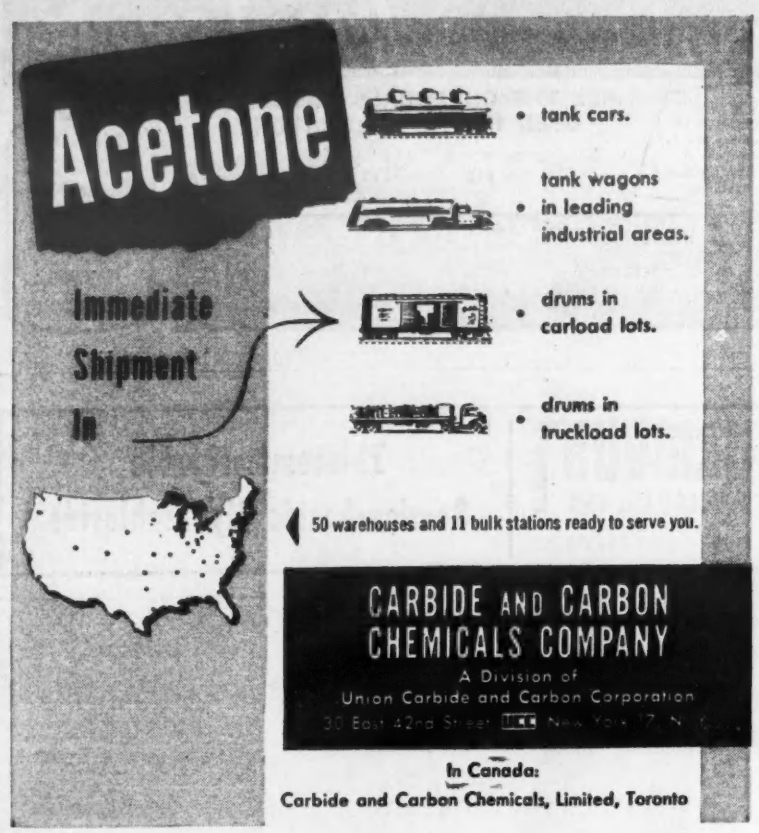
For full information, for samples, or for fast, dependable supply of "dry" or regular bromine, contact Michigan Chemical Corporation at once.

MC

MICHIGAN CHEMICAL CORPORATION • Saint Louis, Michigan

EASTERN SALES OFFICE: 230 Park Avenue New York 17, New York

BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS


Acetone
Immediate Shipment In
• tank cars.
• tank wagons in leading industrial areas.
• drums in carload lots.
• drums in truckload lots.
50 warehouses and 11 bulk stations ready to serve you.
CARBIDE AND CARBON CHEMICALS COMPANY
A Division of
Union Carbide and Carbon Corporation
In Canada:
Carbide and Carbon Chemicals, Limited, Toronto

Available in carloads...Now!

Sea Sorb®

U. S. Patent 2,219,720

THE LOWEST COST HIGHLY-ACTIVE MAGNESIA

Every buyer of adsorbents should get samples and prices on *Sea Sorb*—Westvaco's new, low cost, highly-active basic adsorbent. It combines high surface-area, uniform pore-size and an ionic crystal lattice structure to give unusual adsorptive and catalytic properties. It's an all-around good money value for a wide variety of separations, purifications and catalytic processes.

Get prices now. Get samples for your plant and technical men. Start saving on adsorbents with patented *Sea Sorb*.

Westvaco® CHEMICALS TRADE MARK

fmc WESTVACO CHEMICAL DIVISION fmc
FOOD MACHINERY AND CHEMICAL CORPORATION
GENERAL OFFICES • 161 EAST 42nd STREET, NEW YORK 17
CHICAGO, ILL. • CINCINNATI, OHIO • CHARLOTTE, N. C. • DENVER, COLO.
ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.
PHILADELPHIA, PENN. • PITTSBURGH, PENN. • VANCOUVER, WASH.

Drug Catalog Is Simplified, Offered by Commerce Dept.

Printed copies of "Simplified Practice Recommendation R250-53, Standard Drug Catalogs," are now available, according to an announcement by the commodity standards division of the Department of Commerce.

Because of the absence of uniformity in definitions, and the overdiversification of catalog-format the keeping of drug catalogs abreast of the constantly mounting number of newly introduced pharmaceuticals, biologicals, veterinary products, proprietaries, toiletries, as well as dosage-forms has become increasingly complex, it was pointed out. With a view to ameliorating the existing confusion, several professional organizations, with the collaboration of the Department of Commerce, voluntarily developed this simplified drug catalog.

Printed copies of R250-53 may be obtained for 20 cents each from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. A discount of 25 percent will be allowed on orders of 100 or more copies. Orders should be accompanied by check, money order, or coupons.

Western Condensing Appoints

Appointment of Arthur Kennedy as sales manager for the Western Condensing Company's lactose and edible whey divisions has been announced by R. W. Coolidge, director of sales. Mr. Kenndey was formerly in sales work in England and more recently in California. He will make his new headquarters at Western's sales offices in Appleton, Wis.

APMA to Hear Officials

—Continued from page 7

Hart E. Van Riper, medical director of the National Foundation for Infantile Paralysis, will map "The Changing Front on Poliomyelitis Research." Dr. Cornelius P. Rhoads, director of the Sloan-Kettering Institute for Cancer Research, will detail recent developments in the treatment of cancer. Dr. Harry Most of New York University, Bellevue Medical Center, will report on tropical diseases.

Government's Health Role

The government's role in the fight against disease will provide the theme of Wednesday morning's session. Dr. W. H. Sebrell, jr., director of the National Institutes of Health, will describe the functions of that organization. Work by two of its units will also be detailed. Dr. Joseph J. Bunim, chief of the arthritis and rheumatism branch, National Institute of Arthritis and Metabolic Diseases, will report on "Research Activities in Rheumatic Diseases." Arteriosclerosis and atherosclerosis research gains will be discussed by Dr. Christian B. Anfinsen, chief of the laboratory of cellular physiology and metabolism, National Heart Institute. Dr. Feefer will be the concluding speaker at this session.

Scheduled to address the final APMA session on Wednesday afternoon are Marvin Refal, manager of operations, Personnel Institute, New York; Leo Cherne, executive director, Research Institute of America, New York, and Harold R. Hall, former professor at Harvard School of Business Administration. Their topics are "How Is Your Executive Quotient," "Dilemmas We Create" and "Executives and their Retirement," respectively.

CHLOROPHYLL
All Types and Grades
CALCIFEROL USP and PURE CRYSTALLINE D3
VITAMINS D-2 and D-3
All Types, Oil Soluble, Water Miscible, Mineral Stable
VITAMINS A & D IN POWDERED FORM
•
CAROTENE
•
ISO-PHYTOL
•
BOWMAN YEAST PRODUCTS
Primary Grown and Brewers Type
CHARLES BOWMAN & CO.
220 East 42nd Street, New York 17, N. Y.

Bo-A and PROT-A
(Stable Dry Vitamin A Products)
Bo-DEE
(Vitamins D-2 or D-3, in dry, oil or water dispersible forms)
Bo-DEE MINERAL STABLE VITAMINS D
(Vitamin D that will not decompose when combined with minerals)
CLOROFOLEN
(Proven Dog Food Deodorant)
XANTHOPHYLL CONCENTRATES
(For greater poultry pigmentation)
BOWMAN FEED PRODUCTS, INC.
130 Central Avenue, Holland, Michigan

We offer as manufacturer's exclusive distributors:
HEXAMETHYLENE-TETRAMINE, Tech.
▼
TERRA CHEMICALS, INC.
500 Fifth Ave. New York 36, N. Y.
Telephone: CHickering 4-4934

FATTY ALCOHOLS C_8 to C_{18}
PURE AND TECHNICAL GRADES
LAURYL SULFATE U.S.P. • WOOL GREASE
Samples and prices on request
SYNTHETIC FERTILIZERS & CHEMICALS, INC.
500 Fifth Avenue, New York 36, N. Y. Tel: LOngacre 3-3660

KOLON TRADING CO., INC.
BROKERS
Lithium Carbonate - Lithium Hydroxide
Cables: "KOLONOWAN" 15 PARK ROW, NEW YORK 38, N. Y. *Tel:* BEekman 3-8820-21

DIPHENYL HYDANTOIN SODIUM USP
PABA USP
THE POLYCHEMICAL CO. - - 494 Hunts Point Ave., N.Y. 59

Merrell Increases Research In Gerontological Program

Wm. S. Merrell Company, Cincinnati, Ohio, has launched a research expansion program with emphasis on the field of gerontology. Under the direction of Dr. Harold W. Werner, head of Merrell's scientific research division, studies are being made on the cause of hardening of the arteries, with other research efforts directed to the area of endocrine-type drugs.

Investigation has been begun into the theory that deposition of cholesterol in the artery walls brings about the vascular changes found in hardening of the arteries. The strain on the heart and vessels could be modified, it is felt, if a chemical substance could be found that would modify the way the body handles cholesterol. The findings in this direction have been sufficient, Merrell has stated, to require the construction of a new gerontological laboratory.

Endocrine-type drugs are being studied because of the realization that body functions are controlled by hormones. Research in this field has already resulted in the development of Merrell's synthetic estrogen, "Tace," used for the control of prostatic cancer.

Yeast Coenzyme Isolated By Pabst Laboratories

Pabst Laboratories, research division of Pabst Brewing Company, Milwaukee, Wis., has announced the isolation of a new coenzyme from yeast, uridine triphosphate (UTP).

Pabst UTP is offered to qualified investigators as a readily soluble sodium salt. It is purified by ion-exchange chromatography and is said to be over 90 percent pure, as established by chemical and electrophoretic analyses. The new coenzyme is free of complex nucleotides such as UDPG and UDPAG, and contains adenine nucleotides as minor impurities. Pabst reported.

Uridine triphosphate is analogous in many ways to the coenzyme ATP. At the first commercially available preparation, Pabst UTP is expected to be of interest to biochemists and other research workers.

ACS Chemical Education Unit Post Goes to Garrett

Dr. Alfred B. Garrett, professor of chemistry in charge of the division of general chemistry at Ohio State University, has been elected 1954 chairman of the American Chemical Society's division of chemical education. The retiring chairman is Dr. Paul H. Fall, president of Hiram College, Hiram, Ohio.

Dr. Calvin A. Vander Werf of the University of Kansas has been named chairman-elect and Dr. G. W. Smith of Pennsylvania State College has been chosen secretary.

Trade Briefs

Ralph K. Gottshall, president of Atlas Powder Company, has been elected life trustee of Lafayette College.

William S. Fiedler has joined the Madison, Wis., branch of the Bjorksten Research Laboratories, Inc.

GBI CATALOG

No. 677

Lists more than 300 items for Research:

BIOLOGICAL — MICROBIOLOGICAL — BIOCHEMICAL — BACTERIOLOGICAL — NUTRITIONAL

Save time Use this catalog as a ready reference for biochemicals, media, and test diets. Write for it.

GENERAL BIOCHEMICALS, INC.
53 LABORATORY PARK • CHAGRIN FALLS, OHIO

WAREHOUSE STOCKS

ADIPIC ACID

CALCIUM GLYCEROPHOSPHATE N.F.

The J. M. Baird Company
254 W. 31st St. • New York 1, N.Y.

FINE HEYDEN CHEMICALS

parasepts

Methyl, ethyl, propyl, butyl and benzyl parahydroxybenzoates. Effective bacteriostatic-fungistatic agents against a wide variety of microorganisms. Purified grade used in pharmaceuticals, parenteral solutions, cosmetics and other substances applied to the skin or taken internally. Technical grade used in industrial applications for preserving glues, gum solutions, pastes and polishes.

propyl gallate

Potent antioxidant for stabilizing edible fats and oils against the development of rancidity. Has Department of Agriculture approval for 0.01% in animal fats. Also useful to inhibit the deterioration of vitamin A, ethers, waxes and other products liable to auto-oxidation.

sodium benzoate • benzoic acid

U.S.P. grades as preservatives for foods and beverages. Technical benzoic acid for chemical syntheses; modification of alkyd resins; "carrier" for dyeing Dacron. Technical sodium benzoate shows promise as a corrosion-inhibitor in heat-exchange equipment.

HEYDEN CHEMICAL CORPORATION
342 MADISON AVENUE, NEW YORK 17, N.Y.
Chicago • Philadelphia • San Francisco • Detroit • Providence

ORIGINAL PRODUCERS OF MAGNESIUM SALTS FROM SEA WATER

Magnesium salts from the sea

MAGNESIUM
CARBONATES
HYDROXIDES
OXIDES

MARINE MAGNESIUM PRODUCTS DIVISION OF MERCK & CO., INC.

Main Office, Plant and Laboratories
SOUTH SAN FRANCISCO, CALIFORNIA
Distributors:

WHITTAKER, CLARK & DANIELS, INC. 260 West Broadway, New York
CHICAGO: Harry Holland & Son, Inc.
PHILADELPHIA: R. Peltz Co.
TORONTO: Richardson Agencies, Ltd.
PALMER SUPPLIES CO. Cincinnati, Cleveland
G. S. ROBINS & CO. 126 Chouteau Avenue, St. Louis
THE C. P. HALL CO. Akron, Chicago, Los Angeles, Newark

Write for Brochure

DIACETYL

MONOMERIC LIQUID WITH
97% MINIMUM ASSAY
MELTING POINT -5°C (MIN)

ACETYL METHYL CARBINOL
(ACETOIN)

CRYSTALLINE SOLID WITH
90% MINIMUM ASSAY

Write for Latest Price Schedules

Warehouse Stocks Conveniently Located Throughout the Country

LUCIDOL DIVISION
NOVADEL-AGENE CORPORATION
BUFFALO 5, NEW YORK

NOW OVER 5100
BIOS CHEMICALS

- LUTEOLIN
- LYCOPENE
- LYSERGIC ACID
- MACLURIN
- MAGNESIUM ETHYL SULFATE
- MAGNESIUM GENTISATE
- MAGNESIUM HYPOPHOSPHITE
- MAGNESIUM OLEATE
- MAGNESIUM THIOCYANATE
- MALEONITRILE
- MALONYL CHLORIDE
- MANGANESE ARSENATE
- MANGANESE CHROMATE
- MANGANESE FLUORIDE
- MANGANESE GLYCEROPHOSPHATE
- MANGANESE SULFITE
- MELAM
- MELEM
- MELIBIASE
- MELISSYL ALCOHOL

Ask for our new complete catalogue.

BIOS Laboratories, Inc.
17 West 60th St. New York 23, N. Y.
Plaza 7-8171

Solvents
MISCIBLE IN WATER AND HYDROCARBONS

ANSUL
ETHERS OF POLYGLYCOLS

ETHYLENE GLYCOL DIMETHYL ETHER
$CH_3OCH_2CH_2OCH_3$ B.P. 85°C

DIETHYLENE GLYCOL DIMETHYL ETHER
$CH_3(OCH_2CH_2)_2OCH_3$ B.P. 162°C

TRIETHYLENE GLYCOL DIMETHYL ETHER
$CH_3(OCH_2CH_2)_3OCH_3$ B.P. 216°C

DIMETHOXY TETRAETHYLENE GLYCOL
$CH_3(OCH_2CH_2)_4OCH_3$ B.P. 275°C

In requesting additional information and samples please use your company's letterhead.

ANSUL Chemical Company
INDUSTRIAL CHEMICALS DIVISION • MARINETTE, WISCONSIN

J. B. GRUMAN CO., INC.
St. Francis, Komorn and Main Sts.
Est. 1854 Newark 5, N. J.
Telephone MArket 3-2491

OFFER
Crude — Milled
ARABIC
KARAYA
TRAGACANTH

HORMONES
DEHYDROCHOLIC ACID N.F.
(Oral and Injectable Grades)
SODIUM CHOLATE
SODIUM DEHYDROCHOLATE
OX BILE USP
DRIED OX GALL POWDER
We invite your inquiries
GEDEON RICHTER
PHARMACEUTICAL PRODUCTS INC.
20 Exchange Place, New York 5, N.Y.

REHEIS

$Al(OH)_3$

COMPRESSED GEL
IDEAL FOR DRUG MANUFACTURE

Reheis Concentrated Gel F-500 provides the pharmaceutical manufacturer with an easy method of making Aluminum Hydroxide Gel U.S.P.—1 lb. gel to 1¼ lb. water. Then merely add flavoring agents, and preservatives (optional under U.S.P.) to obtain a high-grade individualized product.

DESCRIPTION, F-500 GEL

- Smooth, heavy, snow-white and odorless.
- Reacts rapidly with acid of gastric strength.
- Acid-consuming Capacity (4% suspension) — 23.5 vol. N/10 HCl.
- Has minimum settling characteristics — little or no separation on standing, yet pours easily (4% suspension).
- Has colloidal properties — and is thixotropic.
- Packed in polyethylene bags in lined drums to insure delivery with highest purity.

Write for data and sample.

REHEIS COMPANY, INC.
Manufacturers of Fine Chemicals
BERKELEY HEIGHTS • NEW JERSEY

Imports at United States Ports

New York

ACONITE ROOT—20 bgs, Barcelona
ADIPIC ACID—100 bgs, J M Baird Co, Rotterdam
AGAR—50 bls, Mallat & Co, Nagoya
50 bls, Peoples First National Pittsburgh, Kobe
7 bbls, Consumers Import Co, Cadiz
ALUMINUM SULPHATE—330 bgs, Phillipp Bros, Bremen
AMMONIUM CARBONATE—50 cs, American British Chemical Supplies, Glasgow
SULPHATE—40 dms, Lo Curto & Funk, Bremen
ANILIN DYES—84 dms, Ciba Co, Rotterdam
14 dms, C A Haynes, Rotterdam
5 dms, Hensel Bruckmann & Lorbacher, Rotterdam
7 dms, Wilson Export & Import Corp, Antwerp
5 dms, Heemsoth Kerner, Liverpool
ANISE SEED—167 bgs, Gillespie & Co, Beirut
148 bgs, Louis Furth, Beirut
ANNATTO SEED—22 bgs, Marcel Calvet, Ciudad Trujillo
ANTIMONY OXIDE—206 bgs, C Gitlan, Antwerp
REGULUS—130 cs, C Gitlan, Antwerp
74 cks, Industrial Sales Corp, Antwerp
60 cks, Holland Whitehall Inc, Antwerp
150 cs, Holland Whitehall Inc, Antwerp
ARGOLS—528 bgs, Tartaric Raw Materials, Marseilles
ASBESTOS FIBER — 4,168 bgs, Johns Manville Corp, Lourenco Marques
BARIUM CHLORIDE—50 bgs, Mutchler Chemical Corp, Rotterdam
BEESWAX—11 bls, E Danielpour & Sons, Beirut
15 bgs, H H Pike, Havana
BERGAMOT OIL—4 cs, Felton Chemical Co, Marseilles
4 hlf cs, Home & Colonial Inc, Rotterdam
BETAMETHYLNAPHTHALENE — 2 dms, Ortho Chemical Corp, Rotterdam
BILE—11 dms, C E Mantell, Barcelona
BISMUTH METAL—23 cs, Overseas Metal & Ore Corp, Rotterdam
BISPHENOL—394 bgs, Hudson Shipping Co, Hamburg
CADMIUM—30 cs, Industrial Sales Corp, Antwerp
CAMPHOR OIL—25 dms, Centfior Manufacturing Co, Kobe
CARAWAY OIL—3 dms, Flora Essential Oils Co, Rotterdam
SEED—150 bgs, Levy & Levis Co, Rotterdam
100 bgs, J H Forbes, Rotterdam
100 bgs, Louis Furth, Rotterdam
CARNAUBA WAX—224 bgs, World Commerce Corp, Fortaleza
112 bgs, J H Schroder, Fortaleza
56 bgs, Cornelius Products Co, Fortaleza
CASTOR BEANS—387 bgs, Spencer Kellogg, Jacmel
OIL—298 tons, Baker Castor Oil Co, Rotterdam
165 tons, Bank of N Y, Recife
CELERY SEED—175 bgs, George Lueders & Co, Bombay
87 bgs, Otto Gerdau, Bombay
33 bgs, Levy & Levis Co, Marseilles
CHESTNUT EXTRACT—500 bgs, Barkey Importing Co, Genoa
CHILLIES—2,124 bgs, Chemical Bank, Massawa
100 bgs, National City Bank, Massawa
CLOVE LEAF OIL—16 dms, French American Banking Corp, Marseilles
COALTAR DYES—26 dms, N Nydegger, Rotterdam
6 dms, C A Haynes, Rotterdam
6 dms, Interchemical Corp, Rotterdam
8 dms, National City Bank, Rotterdam
COCONUT OIL—300 tons, Pacific Vegetable Oil Corp, Manila
744 tons, Manila
CODLIVER—191 dms, Silmo Chemical Corp, St Johns
OIL—380 dms, Atlas Refinery, St Johns
100 dms, Arista Oil Products Co, St Johns
100 dms, Whitmoyer Lab, St Johns
100 dms, Otto Oil Co, St Johns
200 dms, Nopco Chemical Co, St Johns
100 dms, Atlas Refinery, Halifax
COPAL GUM—250 bgs, S Winterbourne & Co, Matadi
49 bkts, Internatio Rotterdam, Macassar
COPPER CYANIDE—22 dms, J H Bauminger, Rotterdam
COTTON LINTERS—912 bls, Kauders Steuber, Hamburg
CREAM OF TARTAR—700 bgs, Genoa
CRESYLIC ACID—400 dms, H A Gogarty, Liverpool
25 dms, Calabrian Co, Amsterdam
CUTTLEFISH BONE—300 cs, American Cuttlefish & Crucible Co, Marseilles
100 cs, Lisbon
200 cs, Venice
DAMMAR GUM—175 bgs, O G Innes Corp, Singapore
50 cs, O G Innes Corp, Bangkok
DEXTRIN—220 bgs, Stein, Hall & Co, Rotterdam
75 bgs, Morningstar Nicol, Rotterdam
60 bgs, Illinois Adhesive Products, Rotterdam
100 bgs, Rotterdam
DICALCIUM PHOSPHATE—2,645 bgs, Albumina Supply Co, Antwerp
EARTH COLORS—900 bgs, T H Deutz, Rotterdam
224 bgs, Landers Segal Color Co, Rotterdam
450 bgs, Reichard Coulston, Amsterdam
EPOXY RESIN—69 dms, Shell Chemical Corp, Rotterdam
EPSOM SALT — 1,290 bgs, Interstate Chemical Corp, Bremen
FENNEL SEED—89 bgs, Wm E Martin, Bombay
80 bgs, L A Champon & Co, Bombay
FISH [illegible] OIL—2 dms, J D Smith Interocean, Yokohama
FUEL [illegible],170 bbls, Esso Standard Oil Co, Aruba
101,867 bbls, Esso Standard Oil Co, Amuay Bay
101,489 bbls, Paragon Oil Co, Tampico
15,343 tons, Metropolitan Petroleum Corp, Pointe a Pierre
109,416 bbls, Metropolitan Petroleum Corp, Curacao
101,083 bbls, Shell Caribbean Oil Co, Curacao
98,535 bbls, Shell Caribbean Oil Co, Punta Cardon
116,570 bbls, Esso Export Corp, Aruba
89,496 bbls, Asiatic Petroleum Corp, Aruba
10,000 bbls, Asiatic Petroleum Corp, Curacao
101,375 bbls, Esso Export Corp, Caripito
97,098 bbls, Metropolitan Petroleum Corp, Las Piedras
GELATIN—22 cs, Dingeistedt & Co, Rotterdam
40 bbls, Hensel Bruckmann & Lorbacher, Rotterdam
GINGER ROOT—47 bgs, Wm E Martin, Lagos
GLUE—200 bgs, Liverpool
STOCK—742 bls, First National Boston, Barranquilla
240 bls, Thos Ellis & Co, Liverpool
GLYCERIN—83 dms, R P Casado, Havana
50 dms, C J Schellings, Bangkok
GRAPHITE—600 bgs, Asbury Graphite Mills, Bremen
1,700 bgs, Joseph Dixon Crucible Co, Tamatave
2,500 bgs, C Pettinos, Tamatave
1,450 bgs, Tamatave
GYPSUM—26,750 tons, U S Gypsum Co, Hantsport
2,635 tons, Newark Plaster Co, Walton
9,583 tons, National Gypsum Co, Little Narrows
234 bgs, Whittaker Clark & Daniels, Liverpool
HYDROGEN PEROXIDE—56 djns, Hamburg
IRON CHLORIDE—167 dms, Schmidt Pritchard & Co, Rotterdam
OXIDE—770 bgs, Nafton Inc, Bremen
SULPHATE—300 dms, Hudson Shipping Co, Liverpool
JALAP ROOT—17 bgs, Meer Corp, Vera Cruz
JUNIPER BERRIES—267 bgs, Leghorn
KIESERITE—1,000 bgs, Sterling Chemical Corp, Bremen
LAVENDER FLOWERS—20 bls, S B Penick & Co, Marseille
OIL—3 dms, V-n Ameringen Haebler, Marseille
LEATHERMEAL—1,000 bgs, Liverpool
LINSEED OIL—515 tons, North American Continental Co, Toronto
LOCUST BEAN GUM—18 bgs, Morningstar Nicol, 7 dms, N Y Trust Co, Barcelona
500 bgs, Irving Trust Co, Barcelona
200 bgs, Morningstar Nicol, Liverpool
80 bgs, Bank of N Y, Liverpool
910 bgs, J L Quesada, Valencia
250 bgs, Morningstar Nicol, Genoa
200 bgs, H P Rossinger, Rotterdam
100 bgs, Thurston & Braidich, Rotterdam
300 bgs, Guaranty Trust Co, Rotterdam
40 bgs, National City Bank, Barcelona
55 bgs, S B Penick & Co, Genoa
224 bgs, Genoa
100 bgs, Valencia
MAGNESIUM CARBONATE—1 bg, Gaine & Ingram, Liverpool
50 cs, Hanover Bank, Liverpool
OXIDE—1 bg, Gaine & Ingram, Liverpool
TRISILICATE—1 cs, Gaine & Ingram, Liverpool
MANDARIN OIL—30 qu cs, National City Bank, Messina
MANGROVE BARK—3,700 bgs, Olson Sales Agency, Tumaco
EXTRACT—1,000 bgs, Saxe Cutch Corp, Sandakan
METACRESOL—2 dms, H A Gogarty, Liverpool
MILK SUGAR—50 dms, Frank Samuel & Co, Rotterdam
MOLASSES—2 dms, Chas Pfizer & Co, Vera Cruz
BEET—2,067 tons, Standard Brands, Hamburg
MONTAN WAX—140 bgs, Wax & Rosin Products, Bremen
MUSTARD SEED—136 bgs, Griffin Grocery Co, Rotterdam
135 bgs, Catania
NAPHTHALENE—1,000 bgs, Fallek Products Co, Rotterdam
1,015 bgs, Rotterdam
1,000 bgs, Antwerp
NAPHTHENIC ACID—2,994 bbls, Esso Standard Oil Co, Aruba
NAPHTHOL—33 dms, Nova Chemical Corp, Genoa
7 dms, Orlex Dyes & Chemicals, Rotterdam
NICKEL CHLORIDE—20 cks, Browning Chemical Corp, Bremen
SULPHATE—100 bgs, Amplex Chemical Co, Bremen
NICOTINE SULPHATE—130 dms, Rotterdam
NUTMEG—63 bgs, Fuerst Bros, Macassar
OLIBANUM GUM—134 bgs, Chase National Bank, Massawa
67 bgs, Tragacanth Importing Co, Bombay
OLIVE OIL—75 dms, Leghorn Trading Co, Piraeus
100 dms, Schroeder Bros, Piraeus
50 dms, Bank of America, Piraeus
50 dms, Uddo & Taormina Co, Piraeus
45 dms, International Expediters, Piraeus
10 dms, Sosangelis Bros, Piraeus
25 dms, International Importing Co, Piraeus
25 dms, F Bonomo & Co, Piraeus
50 dms, L Sclafani, Piraeus
150 dms, A Fantis, Piraeus
100 dms, Venice Importing Co, Piraeus
100 dms, Scaramelli Co, Piraeus
25 dms, D & A Sclafani, Piraeus
100 dms, Olivo Packing Co, Piraeus
100 dms, B Fillippone & Co, Piraeus
300 dms, J Ossola Co, Piraeus
25 dms, Desimone Bros, Piraeus
25 dms, Wholesale Grocery Co, Piraeus
100 dms, Mawer Gulden Annis, Piraeus
50 dms, Chicago Macaroni Co, Piraeus
50 dms, Sterling National Bank, Piraeus
25 dms, Cappelino Bros, Piraeus
100 dms, Piraeus
ORANGE OIL—2 dms, Manufacturers Trust Co, Puerto Plata
OREGANO LEAVES—63 bgs, Louis Furth, Beirut
PALM OIL—27 tons, Colgate-Palmolive-Peet Co, Matadi
406 tons, Lever Bros, Matadi
270 tons, Canada Packers Ltd, Matadi
300 tons, Matadi
4 cs, Rotterdam
PALMAROSA OIL—2 dms, Credit Suisse, Bombay
PAPAIN—10 cs, L Huisking & Co, Mombasa
44 cs, Chas L Huisking & Co, Colombo
71 hlf chts, Chas L Huisking & Co, Colombo
PAPRIKA—274 bgs, M A Rand, Rotterdam
PEATMOSS—3,700 bls, Premier Peatmoss Corp, Bremen
2,000 bls, Lion Trading Co, Bremen
1,200 bls, J E Bernard, Bremen
1,000 bls, J E Bernard, Hamburg
1,000 bls, E J Lang, Bremen
2,575 bls, New Amsterdam Import Co, Bremen
650 bls, C Gastmeyer, Rotterdam
50 bls, Lewis International Co, Bremen
PEPPER, BLACK—125 bgs, Joensson & Cross, Singapore
90 bgs, Internatio Rotterdam, Kuching
140 bgs, Far Eastern Commodities Corp, Singapore
120 bgs, Volkart Bros, Cochin
83 bgs, Ludwig Mueller, Colombo
80 bgs, H Schlichting, Singapore
63 bgs, Mutual Spice Co, Singapore
35 bgs, A G Dunn, Singapore
160 bgs, Volkart Bros, Cochin
80 bgs, Guaranty Trust Co, Cochin
979 bgs, Cochin
240 bgs, Alleppey
RED—500 bgs, Joensson & Cross, Cadiz
WHITE—40 bgs, Anglo American Trading Co, Pangkai Pinang
16 bgs, A G Dunn, Pangkai Pinang
80 bgs, J Berlage, Pangkai Pinang
80 bgs, U S & Indonesia Trading Corp, Pangkai Pinang
77 bgs, Internatio Rotterdam, Pangkai Pinang
PEPPERMINT OIL—10 cs, James Haywood & Son, Kobe
PETROLEUM, CRUDE—113,360 bbls, Socony Vacuum Oil Co, Puerto La Cruz
133,179 bbls, California Oil Co, Puerto La Cruz
PHTHALIC ANHYDRIDE—2,000 bgs, American Cyanamid Co, Antwerp
660 bgs, American Cyanamid Co, Rotterdam
1,102 bgs, Rotterdam
POLLACKLIVER OIL—25 dms, Consumers Import Co, Yokohama
POLYETHYLENE—4 dms, Visking Corp, Rotterdam
POLYVINYL ACETATE—50 bls, Bremen
CHLORIDE—2,400 bgs, American Express Co, Antwerp
5,000 bgs, Public National Bank, Naples
2,000 bgs, Antwerp
POPPY SEED—200 bgs, M J Golombeck, Rotterdam
50 bgs, Frank Tea & Spice Co, Rotterdam
100 bgs, J Bieler, Rotterdam
300 bgs, Louis Furth, Rotterdam
300 bgs, Levy & Levis Co, Rotterdam
50 bgs, J H Forbes, Rotterdam
100 bgs, Rotterdam
100 bgs, Transit Export & Import Co, Rotterdam
333 bgs, A Gronowitz, Gdynia
333 bgs, J Bieler, Gdynia
333 bgs, C M Van Sillevoldt, Gdynia
333 bgs, Levy & Levis Co, Gdynia
333 bgs, Louis Furth, Gdynia
333 bgs, Becker Mayer Seed Co, Gdynia
POTASH, MURIATE—1,814 tons, French Potash & Import Co, Antwerp
POTASSIUM FERRICYANIDE—110 bgs, Spring Chemicals Inc, Rotterdam
PERSULPHATE—50 dms, Lo Curto & Funk, Bremen
PRUSSIATE—400 bgs, American Cyanamid Co, Rotterdam
POTATO STARCH—400 bgs, National Starch Products, Rotterdam
100 bgs, B Westergaard & Co, Rotterdam

PYRETHRUM FLOWERS—251 bls, Mellon National
Bang, Dar es Salaam
126 bls, Manufacturers Trust Co, Dar es Salaam
220 dms, Manufacturers Trust Co, Dar es Salaam
QUEBRACHO EXTRACT—2,057 bgs, C M Loeb Rhoades, Buenos Aires
QUICKSILVER—125 flks, Lo Curto & Funk, Tampico
350 flks, F W Berk & Co, Tampico
72 flks, G Jimenez Corp, Tampico
136 flks, G Jimenez Corp, Vera Cruz
300 flks, Chase National Bank, Tampico
250 flks, J H Schroder, Leghorn
50 flks, Tampico
RADIUM—1 cs, Radium Chemical Corp, Antwerp
RAPESEED—600 bgs, Hartz Mountain Products, Rotterdam
SACCHARIN—18 dms, Rotterdam
SAFFRON—2 bgs, Meer Corp, Vera Cruz
SAGE LEAVES—200 bls, M J Golombeck, Piraeus
40 bls, Leghorn
SEEDLAC—1,344 bgs, Gillespie Rogers Pyatt, Bangkok
500 bgs, Bangkok
250 bgs, Mac Lac Co, Bangkok
150 bgs, Colony Import & Export Corp, Bangkok
250 bgs, Dominion Bank, Bangkok
500 bgs, Capitol Shellac Corp, Bangkok
275 bgs, J S Chawla, Bangkok
747 bgs, East Asiatic Co, Bangkok
130 bgs, Suhr & Bundelmann, Bangkok
130 bgs, Borneo Sumatra Trading Co, Bangkok
SENNA LEAVES—40 bls, Meer Corp, Tuticorin
200 bls, Prentiss Drug & Chemical Co, Tuticorin
SERPENTINA ROOT—120 cs, Ciba Pharm Products, Cochin
SESAME SEED—672 bgs, J Bieler, El Salvador
400 bgs, Louis Furth, Corinto
224 bgs, Levy & Levis Co, El Salvador
SHARKLIVER OIL—30 dms, Albumina Supply Co, Kobe
SHELLAC—350 bgs, Mac Lac Co, Calcutta
175 bgs, Wm Zinsser & Co, Calcutta
50 bgs, Mac Lac Co, Bangkok
24 bgs, F H Paul & Stein Bros, Hamburg
27 dms, F H Paul & Stein Bros, Hamburg
27 dms, F H Paul & Stein Bros, Rotterdam
42 cs, F H Paul & Stein Bros, Rotterdam
SODIUM CYANIDE—100 dms, W J Byrnes, Hamburg
99 dms, Atlantic Bank of N Y, Hamburg
50 dms, Chemical Mfg Co, Liverpool
PARA-AMINOSALICYLATE—10 cks, Rotterdam
STARCH—4,000 bgs, Alltransport Inc, Rotterdam
50 bgs, Rotterdam
SULPHADIAZINE—7 cs, American Roland Corp, Genoa
1 dm, Millmaster Chemical Co, Havana
TAPIOCA—1,179 bgs, Madagascar Agencies, Tamatave
FLOUR—2,200 bgs, Stein, Hall & Co, Bangkok
1,000 bgs, Wah Chang Corp, Bangkok
1,076 bgs, Stein, Hall & Co, Tjirebon
TARA POWDER—250 bgs, Irving Trust Co, Salaverry
TARTAR—1,378 bgs, Tartaric Raw Materials, Marseille
TARTARIC ACID—400 bgs, Genoa
THEOBROMINE—5 cs, Blumberg Chemicals, Rotterdam
TITANIUM ALUMINUM—7 dms, Liverpool
TRICHLOROETHYLENE—224 dms, Chemical Manufacturing Co, Liverpool
825 dms, Venice
TUNG OIL—330 tons, Pacific Vegetable Oil Corp, Buenos Aires
ULTRAMARINE BLUE—60 bbls, Landers Segal Color Co, Rotterdam
UREA—182 bgs, Terra Chemicals Inc, Rotterdam
2,640 bgs, Genoa
SYNTHETIC—2,000 bgs, Chemical Manufacturing Co, Liverpool
VANILLA BEANS—122 cs, Camax Co, Vera Cruz
36 cs, F Hubert & Co, Vera Cruz
40 cs, Zink & Trieste, Hamburg
25 cs, Thurston & Braidich, Antalaha
19 cs, Madagascar Agencies, Antalaha
50 cs, Swiss Bank Corp, Tamatave
39 cs, Thurston & Braidich, Tamatave
17 cs, F Huber & Co, Tamatave
28 cs, Tamatave
26 cs, Gillespie & Co, Semarang
POWDER—14 cs, R L Oppenheimer, Marseilles
WATTLE EXTRACT—2,574 bgs, Olson Sales Agency, Durban
WHITING—2,200 bgs, Pluess Staufer, Antwerp
2,000 bgs, N H Weitzner, Antwerp
WOOL GREASE—100 dms, Hummel Chemical Co, Bremen
51 dms, Antwerp
53 dms, J J Gavin & Co, Antwerp
25 dms, Botany Mills, Nagoya
ZINC CYANIDE—33 dms, Rotterdam

Baltimore

CASEIN—300 bgs, J H Schroeder, Bordeaux
EARTH COLORS—1,344 bgs, American Chemical & Pigment Corp, Rotterdam
MYROBALANS—729 bgs, River Plate Corp, Bombay
POTASSIUM NITRATE—20 bgs, Bremen

Boston

DEXTRIN—100 bgs, Harry F R Dolan, Rotterdam
OLIVE OIL—75 dms, First National Boston, Piraeus

Charleston

MYROBALANS—729 bgs, River Plate Corp, Bombay

Los Angeles

ANNATTO SEED—58 bgs, Maritime Trading Co, Guyaquil
CHILLIES—25 bls, D Hecht & Co, Kobe
COPRA CAKE—2,000 bgs, Pacific Vegetable Oil Corp, Cebu
6,000 bgs, Balfour Guthrie & Co, Cebu
2,000 bgs, Atkins Kroll & Co, Cebu
FISHMEAL—400 bgs, Wessel Duval & Co, Chimbote
LOCUST BEAN GUM—75 kegs, T M Duche, Genoa
PETROLEUM, CRUDE—173,166 bbls, The Texas Co, Sungai Pakning
POLLACKLIVER OIL—100 dms, Van Camp Sea Food Co, Yokohama
SESAME SEED—200 bgs, Lastreto-Phillips Commercial Co, Corinto
100 bgs, W R Grace & Co, Corinto
220 bgs, Bank of California National Assn, Corinto
UREA—4,407 bgs, Antwerp

Norfolk

STARCH—200 bgs, Morningstar Nicol, Rotterdam

Philadelphia

ANTIMONY—40 cks, Watson Geach, Glasgow
BLANC FIXE—1,000 bgs, Vandergrift Co, Rotterdam
CARBAZOLE—22 dms, Rotterdam
CHESTNUT POWDER—367 bgs, Bordeaux
CUTTLEFISH BONE—75 cs, Philadelphia Seed Co, Portimao
10 cs, Philadelphia Seed Co, Bordeaux
DICALCIUM PHOSPHATE—1,100 bgs, National City Bank, Antwerp
DIMETHYLPHENOL—20 dms, Concord Chemical Co, Antwerp
EARTH COLORS—862 bgs, C K Williams, Larnaca
FERRIC CHLORIDE—176 dms, Corn Exchange Bank, Hamburg
FLUORSPAR—2,080 tons, Wm Muller, Santander
FUEL OIL—68,415 bbls, Patterson Oil Co, Curacao
GRAPHITE—500 bgs, National City Bank, Tamatave
NAPHTHALENE—2,222 bgs, Rotterdam
PEATMOSS—1,600 bls, Keer Mauer, Bremen
400 bls, Bank of Manhattan Co, Dublin
500 bls, Keer Mauer, Hamburg
375 bls, Halfmoon Manufacturing & Trading Co, Rotterdam
PETROLEUM, CRUDE—103,270 bbls, Atlantic Refining Co, Las Piedras
204,965 bbls, Atlantic Refining Co, Mena Al Ahmadi
332,633 bbls, Atlantic Refining Co, Pamatacual
120,488 bbls, Atlantic Refining Co, Puerto La Cruz
386,794 bbls, Gulf Oil Corp, Mena Al Ahmadi
112,532 bbls, Gulf Oil Corp, Puerto La Cruz
127,392 bbls, The Texas Co, Puerto La Cruz
372,493 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
120,000 bbls, Socony Vacuum Oil Co, Puerto La Cruz
236,305 bbls, Socony Vacuum Oil Co, Covenas
POPPY SEED—100 bgs, J Kaufman, Rotterdam
POTATO STARCH—1,500 bgs, Stein Hall & Co, Copenhagen
SODIUM NITRATE—5,426 tons, Guaranty Trust Co, Tocopilla
ZIRCON SAND—4,000 bgs, Newcastle

San Francisco

CADMIUM—21 cs, Antwerp
CALCIUM FORMATE—250 bgs, C M C Chemicals, Glasgow
CARAWAY SEED—100 bgs, Benton Co, Rotterdam
100 bgs, B C Ireland, Rotterdam
CASSIA—334 bgs, H M Newhall & Co, Djakarta
142 pkgs, Rotterdam
CLOVE—100 bls, Bankers Trust Co, Singapore
61 bls, Mincing Trading Corp, Singapore
32 bls, Kellys America Ltd, Singapore
COCONUT OIL CAKE—2,000 bgs, Internatio Rotterdam, Cebu
COPAL GUM—137 bgs, Internatio Rotterdam, Manila
140 bgs, O G Innes Corp, Manila
COPRA—1,000 tons, El Dorado Oil Works, Davao
250 tons, Western Vegetable Oil Co, Cebu
500 tons, Cargill Inc, Siain
500 tons, Cargill Inc, Surigao
500 tons, El Dorado Oil Works, Siain
500 tons, American Trust Co, Cebu
CAKE—3,000 bgs, Balfour Guthrie, Cebu
CUBE POWDER—75 bgs, Callao
DEXTRIN—40 bgs, Stein Hall & Co, Rotterdam
FISHMEAL—1,304 bgs, W R Grace & Co, Chimbote
653 bgs, Wessel Duval & Co, Supe
1,416 bgs, Wessel Duval & Co, Chimbote
554 bgs, Balfour Guthrie & Co, Chimbote
GLUE—230 bgs, London
LOCUST BEAN GUM—130 bgs, Stein, Hall & Co, Cenoa
25 kgs, T M Duche & Sons, Genoa
MACE—67 cs, Catz American Co, Djakarta
MARJORAM—40 bgs, Callao
NAPHTHALENE—100 bgs, Carnegie Chemical Manufacturing Corp, Rotterdam
NUTMEG—67 bgs, Catz American Co, Djakarta
OLIVE OIL—23 dms, G Oberti & Sons, Marseille
OURICURY WAX—115 bgs, Rotterdam
PEATMOSS—1,000 bls, H M Newhall & Co, Bremen
1,000 bls, W R Grace & Co, Bremen
1,600 bls, Lastreto Phillips, Rotterdam
PEPPER, BLACK—21 bgs, G H Winram, Singapore
30 bgs, Internatio Rotterdam, Djakarta
240 bgs, Mincing Trading Corp, Djakarta
96 bgs, B C Ireland, Djakarta
77 bgs, C. Czarinjow, Singapore
PETROLEUM, CRUDE—17,305 tons, Tidewater Associated Oil Co, Umm Said
19,274 tons, Tidewater Associated Oil Co, Mena Al Ahmadi
36,251 tons, Standard Oil Co, Ras Tanura
50,458 tons, Standard Oil Co, Sungai Pakning
POPPY SEED—25 bgs, Benton Co, Rotterdam
QUEBRACHO EXTRACT—2,171 bgs, Pan American Corp, Buenos Aires
867 bgs, River Plate Corp, Buenos Aires
TAPIOCA FLOUR—3,368 bgs, Internatio Rotterdam, Tjirben
TUNG OIL—119 tons, Buenos Aires
UREA—5,290 bgs, Atkins Kroll & Co, Rotterdam
VANILLA BEANS—17 cs, Williams Dimond & Co, Papeete

Reagents Line Increased By Eastman Kodak Co.

Eastman Kodak Company, Rochester, N. Y., has added two new reagents, N^1,N^1-diethylsulphanilimide and metatoloxyacetic acid, to its list of organic chemicals. N^1,N^1-Diethylsulphanilimide takes advantage of the ability of sulpha compounds to act as colorimetric reagents for thyroxine. It provides an assay based on diazotization of the reagent, formation of a strongly colored reaction product with thyroxine, and extracts in n-butanol.

Metatoloxyacetic acid is a reagent for separating thorium from the rare earths of monazite sands and from uranium. It is available in larger-than-laboratory quantities. Free abstracts of the procedures of both of these chemicals are available from Distillation Products Industries, Eastman Organic Department, Rochester 3, N. Y.

Steel Shipping Barrels Output In Sept. Above That of August

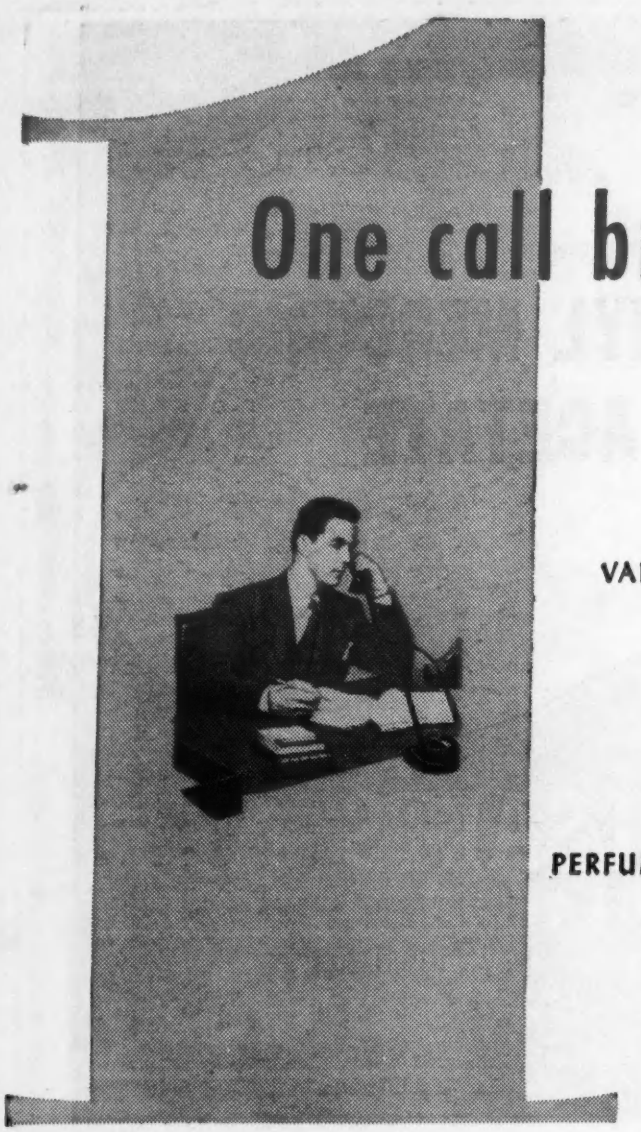
September production of steel shipping barrels and drums, on an average working-day basis, was up slightly above that of August but down from the total for September, 1952, according to the Bureau of Census. During the month the industry turned out 1,950,491 heavy-type steel barrels and drums; 836,238 light-type steel barrels and drums, and 6,105,235 steel shipping packages, kegs, and pails. This compares with 2,025,511 heavy-type shipping barrels; 755,287 light-type steel shipping barrels; and 5,705,994 steel shipping packages, kegs and pails in August.

Industrial Oil Products Correction

In reporting the appointment of Daniel A. Copenhaver to Archer-Daniels-Midland Company's sales staff in the November 9th issue, OPD erroneously stated that Mr. Copenhaver helped found Industrial Oil Products Corporation, Los Angeles. We have been advised that Industrial Oil Products Corporation was organized and founded by Fred E. Loud, current president of the firm, in 1927, and that Mr Copenhaver did not begin his association with the company until 1945

METALSALTS CORPORATION
PHENYL MERCURIC ACETATE
METALSALTS* CORPORATION
Manufacturing Chemists
200 WAGARAW ROAD, HAWTHORNE, N. J.
HAwthorne 7-6000 New York: PEnnsylvania 6-2626
*EXCLUSIVE SALES AGENTS FOR DAR-SYN LABORATORIES, Incorporated and HAWTHORNE LABORATORIES, Incorporated.

SUMNER CHEMICAL
apap
(acetyl-p-aminophenol)
FOR PAIN RELIEF AND PROFITS
Fast pain relief and excellent tolerance make APAP an ideal component for your analgesic compounds. Its performance—clinically and sales-wise—is winning more friends every day. And SUMNER quality and prompt delivery will eliminate production headaches.
Let Sumner be your source
SUMNER CHEMICAL COMPANY, INC.
Organic Chemicals
ZEELAND, MICHIGAN
General Sales Offices:
6 E. 45th St., New York 17, N.Y.
MUrray Hill 2-7970



One call brings them all from Penick

ESSENTIAL OILS Offering the full range of standard essential oils as well as a number of rare and unusual oils of finest purity and quality, many distilled in our own plant.

FLAVORS Food, Beverage and Pharmaceutical manufacturers recognize Penick's OPTIMO® BRAND IMITATION FLAVORS as vital to their finished products. These flavors combine unexcelled quality, unusual strength and economy.

VANILLA PRODUCTS Two types of outstanding all-purpose vanilla products are now available to manufacturers who require true, delicious vanilla flavor and aroma that will remain unaffected by extreme temperatures.

SUPERNILLA (LIQUID). *30 Fold Oleoresin and 30 Fold Extractives; 10 Fold Concentrate.* Smooth, delicate, economical.

SUGANILLA® (DRY). Unfortified vanilla flavor of the highest quality in dry form. Five strengths.

SUGANILLA FORTIFIED in five strengths. Both fortified and unfortified are for use in the confectionery, candy, ice-cream and baking industries.

PERFUME COMPOUNDS Triumphs of the art of combining fragrances from the finest natural oils and aromatics, to impart true odor reproduction to your finished compositions.

Working samples and quotations submitted on your request.

S. B. PENICK & COMPANY

50 Church Street, New York 7, N. Y. Telephone COrtlandt 7-1970

735 West Division Street, Chicago 10, Ill Telephone MOhawk 4-5651

DISTILLERS OF RARE AND QUALITY ESSENTIAL OILS—MANUFACTURERS OF AROMATIC CHEMICALS

AGAR AGAR KOBE No. 1
ANISE OIL U.S.P.
CAMPHOR SYNTHETIC U.S.P.
CAMPHOR OIL WHITE TECH.
CHLOROFORM U.S.P. & TECH.
CITRONELLA OIL CEYLON
GUM ARABIC
MENTHOL CRYSTALS, U.S.P.
SPERMACETI U.S.P.
THYMOL N.F.

PRENTISS WARFARIN CONCENTRATE
— the wonder rodenticide marketed under our trade-name . . .
RAX POWDER
for control of rats and mice . . . ask for full details on this new, proven Prentiss Pest-Tested Product.

PRENTISS DRUG & CHEMICAL CO., Inc.
FORMERLY R. J. PRENTISS & CO., Inc.
310 William Street, New York 38 N.Y. 9 So Clinton Street, Chicago 6, Ill. Plants: BROOKLYN, N.Y.

Safer...Happier...
thanks to Christmas Seals!

Like a radar network guarding the coast line, there is a barrier formed by Christmas Seals which stands as a bulwark for us all against the tragedy of tuberculosis.

The money which *you* donate for Christmas Seals helps to protect *your* family . . . is used to fight TB the year round with continuing medical research, education, rehabilitation, and case finding.

To keep the barrier high, to protect and help us all, send your contribution today, please, to your tuberculosis association.

Buy Christmas Seals

Because of the importance of the above message, this space is contributed by

OIL, PAINT and DRUG REPORTER

Botanical Drugs, Spices, Gums

The market in botanical drugs was rather quiet last week as far as trading activity was concerned. Price changes were minor for the most part. Changes in botanical drugs included a 1 cent advance in columbo root and a 15 cent decline in Hungarian chamomile flowers. Blue cohosh root moved upward 1 cent as did Florentine orris root. Verona quality on the latter advanced 2 cents. Soapbark continued to reflect the higher costs at the source with raises in spot quotations here. The whole root was up 4 cent while crushed was pegged 3 cents higher, and powdered, 2 cents.

Dealers reported demand to be moving at routine levels on most botanical drugs. Although collections were short this past Summer, most contract requirements were said to have been met. Wild cherry and white pine barks, however, continued to get tighter. Prices were very firm on these barks and were expected to go higher in the not too distant future as inventories need replenishment.

There was little extraordinary activity noted among the gums. Inquiry for most was quiet and prices were unchanged in all cases. Seeds and spices were similarly quiet. Black pepper had definitely reversed the downward trend that had characterized the market since the ending of the dock strike last month. Malabar, on spot, advanced 6 cents by late in the week. White pepper held firm and unchanged. Vanilla beans continued very firm with offerings from primary sources virtually nil. Prices were unchanged on all qualities of vanilla last week with the exception of Tahitian. Although strictly nominal, prices on these beans advanced 25 cents over earlier levels. The outlook for the Madagascar crop remained essentially unchanged. Beans now being cured from this year's crop were not expected to be ready for shipment until March/April, 1954.

Anise and sesame seeds continued very scarce. The former advanced 2 cents for Turkish quality. Most other grades were nominally quoted. Hulled Nicaraguan sesame seed advanced 4 cents per pound. East and West Indian nutmegs were firmer with the former climbing 2 cents on the whole and 3 cents on the shriveled. West Indian seed advanced 2½ cents. On the decline, Indian celery seed was lower as well as Indian fennel. Zanzibar clove dropped 3 cents on spot.

Barks

Cascara Sagrada—Demand for this item was routine with supplies reported to be adequate for current needs.

Cocillana—Supplies of this bark continued extremely scarce Prices were nominal at about 45c. per pound.

Fringetree Root—Supplies of this botanical were reportedly ample for current inquiry. Prices were firm and unchanged.

Soap—Spot prices reflected the firmness at the source. Whole bark advanced 4c. to 28c. to 30c. Crushed soap bark was up 3c. while powdered advanced 2c. per pound. The former was currently quoted at 33c. to 35c. on spot, with the latter offered at 35c. to 37c.

Wahoo Root—Supplies of wahoo root bark were quite scarce. Prices were nominal at about $2.30. Demand was quiet.

White Pine—Prices were quite firm on this bark. Although holding steady, the market will probably go higher as consumer demand increases. This botanical is in particularly heavy demand for use in cough remedies.

Wild Cherry—Supplies of wild cherry bark continued to diminish as a result of intensification of demand by pharmaceutical manufacturers. Prices were very firm at 18c. to 19c. for the natural and 19c. to 22c. for the rossed.

Imports Detained by FDA

Week Ended November 13

New York

Cashew nuts, 250 cases: filthy.
Chamomile flowers, 100 cases: filthy.
Coriander seed, 308 bags: filthy.
Cumin seed, 307 bags: filthy.
Nutmeg (2 lots), 500 bags: filthy.
Origanum (2 lots), 226 bags: filthy.
Black pepper (23 lots), 1,354 bags: moldy and water damaged.
Rose flowers, 65 bags: filthy.
Serpentina root, 54 cases: moldy.

Price Trends

Advanced

Drugs

Cohosh root, blue, 3c. per lb.
Columbo root, 1c. per lb.
Orris root, Florentine, 1c. per lb.
Verona, 2c. per lb.
Soap bark, whole, 4c. per lb.
crushed, 3c. per lb.
powdered, 2c. per lb.

Other Articles

Anise seed, Turkish, 2c. per lb.
Cinnamon, Ceylon, No. 2, 1c. per lb.
Mace, Siauw, No. 1, 3c. per lb.
Nutmeg, East Indian, whole, 2c. per lb.
shrivel, 3c. per lb.
West Indian, 2½c. per lb.
Pepper, black, Malabar, 6c. per lb.
Vanilla beans, Tahiti, 25c. per lb.

Reduced

Drugs

Chamomile flowers, Hungarian, 15c. per lb.

Other Articles

Celery seed, Indian, ½c. per lb.
Clove, Zanzibar, 3c. per lb.
Fennel seed, Indian, 1c. per lb.
Pepper, red, Turkish, 1c. per lb.
Psyllium seed, blond, 1c. per lb.
husks, 2c. per lb.
Sage, Dalmatian, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
111.36	112.45	112.31	103.60

* Obtained too late for index calculation.

(*For Current Prices see page 9*)

Flowers

Arnica—True montana flowers were steady at 70c. to 71c. per pound. The market was quiet with supplies ample for current needs.

Chamomile—Hungarian chamomile were lower at 75c. to 80c., a decline of 15c. from levels reported earlier.

Gums

Aloe—Cape and Curacao aloes were steady with demand at routine levels. No Socotrine material was reported available.

Karaya—The market was quiet and steady. Supplies were ample for immediate needs.

Herbs and Leaves

Deer Tongue—Supplies of deer tongue leaves were reported adequate to meet current needs. Prices were firm at 45c. to 48c. per pound.

Grindelia Robusta—The market was quiet. Prices were steady at 44c.

Lobelia—Demand for this herb was said to be about normal for the season. Supplies were adequate for immediate needs and prices were firm.

Yerba Santa—Prices were steady at 40c. Inquiry was quiet and supplies ample.

Miscellaneous

Ergot—Ergot prices were firm at $3.50 to $4 per pound. Supplies were limited but were meeting present lemand.

Kola Nuts—Trade was quiet. Prices ranged from 9c. to 10c. Supplies proved adequate to accommodate current requirements.

Roots

Rhubarb—Demand for rhubarb root was said to be at fair levels. The Chinese material remained scarce since it has been years since it was available in any quantity. Prices were quite firm on this quality, being quoted from 75c. to 85c. on the whole root and 90c. to 95c. for the powdered material. India rhubarb prices were firm at 35c. to 40c. on the whole and 43c. to 45c. for the powdered root.

Sarsaparilla—Demand for sarsaparilla root continued on a rather routine scale. Although shippers have been quoting considerably higher prices than heretofore, this had not been reflected as yet, on spot quotations. Some trade sources report that shippers were upping their offering prices as much as 5c. to 7c. over previous levels, on the Honduran material. Not wishing to discourage available business, dealers have been sitting tight at current spot levels. It was considered to be only a matter of time, however, until current stocks are depleted necessitating replenishment of inventories at higher prices and consequently, the advancing of spot quotations. Honduras sarsaparilla was currently quoted at 38c. to 40c. for the whole root. Mexican root was said to be quite scarce. Asking prices were slated to go up on this quality also, according to trade reports.

Domestic root was currently quoted at 45c. to 50c. per pound. Mexican root was 28c. to 29c.

Seeds

Anise—Anise seed continued very scarce last week. Turkish seed advanced

For Late Market Developments, See Page 4

Meer Corp.

IMPORTERS -:- PROCESSORS

Botanical Drugs
Whole—Milled

•

BOTANICAL
Drug Extracts
Solid—Powdered
Fluid—Tincture

•

Water Soluble Gums

MEER CORPORATION
318 WEST 46th STREET NEW YORK 36, N. Y.
PLANT—NORTH BERGEN, N. J.
Telephones: (N.Y.) Judson 6-0900 (N.J.) UNion 6-3900

INLAND, THE HOUSE OF ALKALOIDS
INLAND TIPTON, IND
PRICE COMMENSURATE WITH QUALITY SINCE 1917

ALKALOIDS

Glycosides
Powdered Extracts
Solid Extracts

Special Products Produced on Request

INLAND ALKALOID CO.
Manufacturing Chemists
905-1016 East Jefferson Street
TIPTON, INDIANA, U.S.A.

- Aconitine
- Agaricin
- Arbutin
- Arecoline
- Asparagin
- Aspidospermine
- Atropine
- Berberine
- Botanical Extracts
- Botanical Resins
- Brucine
- Cantharidin
- Colchicine
- Digitalin
- Digitonin
- Digitoxin
- Duboisine
- Emetine
- Ephedrine
- Esculin
- Eserine
- Helenin
- Homatropine
- Hydrastine
- Hydrastinine
- Hyoscine
- Hyoscyamine
- Jalap Resin
- Lobeline
- Ouabain
- Pelletierine
- Physostigmine
- Picrotoxin
- Pilocarpine
- Podophyllin
- Powdered Extracts
- Quassin
- Rutin
- Sanguinarine
- Scammony Resin
- Scopolamine
- Solid Extracts
- Sparteine
- Strophanthin
- Strychnine
- Yohimbine

2c. over earlier levels, being quoted at 28c., on spot.

Celery—Indian celery seed was off ½c. last week, reflecting the substantial amounts coming in. French seed was unchanged at 47c.

Fennel—Indian fennel seed declined 1c. The current quotation on this quality ranged from 13½c. to 14c. per pound.

Psyllium—Blond seed was down 1c. from prior levels white psyllium husks were 2c. lower. The former was quoted at 15c. to 16c. and the latter, 13½c. to 14c. per pound. Black seeds were unchanged at 26c. to 27c.

Sesame—Sesame seed continued quite scarce. Spot prices advanced 4c. on the hulled Nicaragua to 28c. while Salvadorian seed was ½c. higher, being pegged at 14½c. to 15c.

Since 1909 Your Guarantee
TIC
Quality Service
Tragacanth
IMPORTING CORP.
Trade Mark Registered
GUM KARAYA
100 WATER STREET, NEW YORK 38, N. Y.
BOwling Green 9-1158-59

Spices

Cassia — Prices continued without change on Batavia and Saigon cassias. Demand was routine according to trade sources and incoming shipments were expected to maintain inventories at an adequate level to meet consumer needs. Batavia cuttings were currently offered at 15c. on spot with longstick, cracked, at 17c. and shortsticks, 16c.

Cinnamon—Cinnamon showed some increased firmness last week. Prices advanced 1c. over prior levels and were quoted at 39c. to 39½c. on Ceylon No. 2, afloat. "0000" grade was quoted at 47c. afloat.

Clove—Zanzibar clove continued to weaken, declining 3c. from earlier levels. The current price, on spot, was $1 per pound.

Mace—Siauw mace, No. 1, showed greater firmness last week. On spot, prices rose 3c. and were quoted at $1.05. No prices were available on West Indian grades.

Nutmeg—Prices continued to firm on both East and West Indian material. The former advanced 2c. per pound on the whole and 3c., on the shriveled. East Indian whole and shrivel were currently quoted at 36c., respectively. The dearth of East India nutmeg has intensified the demand for West Indian nutmeg with the concommitant result of causing prices to rise 2½c. to 28c. per pound.

Pepper—Spot black pepper prices advanced last week, reversing the downward trend of recent weeks. Late in the week, black Malabar pepper had advanced to $1.00 per pound, on spot. India has apparently been able to maintain its levels in spite of the dullness in the market here. This was considered significant in view of the fact that the market is largely dependent upon India for future supplies. Lampong was still being withheld and the Sarawak crop has largely been marketed, according to trade reports.

Since the end of the dock strike some time ago, spot prices on black pepper have declined considerably. Shipment prices have declined to a less greater extent than spot values. The sizable arrivals of Sarawak black pepper, accompanied by some Malabar, and a little Lampong have proven well able to meet consumption needs. On top of this, there has been pressure from India to liquidate some of its holdings in preparation for the new crop.

Now the bulk of the Sarawak has arrived. There are very few shipments of Lampong enroute. Last year, in the end of December, very heavy arrivals of Lampong served to break the market. This should not happen this year. The market must look to India for a continuity of supplies. So far they hae been willing, and in face of the coming crop, it would seem logical that they are capable of fulfilling the need.

However, it was doubted, under present circumstances, that India could sustain any broad upward movement. For one thing, the market has sufficient stocks here and enroute to carry it comfortably to the end of the year. It would appear that India is doing enough business to hold its levels, and once sufficient sales are made in the new crop, they may begin to display some of their old independence. The chances are that this will not occur until well into January.

uni-gum
THICKENING
and
SUSPENDING
without heat
low cost
over wide pH
Uni-GUAR Gum
a new source:
uni-gum corporation
24 State Street, New York 4, N. Y.
exclusive agents for
Meypro Ltd., Switzerland
Swiss Locust Bean Gum
in various meshes and viscosities

Schwarz Laboratories Plans 'Open House' December 18

Schwarz Laboratories, Inc., 230 Washington street, Mount Vernon, N. Y., will play host to members of the Association of Consulting Chemists and Chemical Engineers, representatives of the press and other guests December 18 from 4 to 7 p.m. Groups of visitors will be conducted by staff members through the laboratories. Refreshments will be served. Letterhead reservations must be received not later than December 14th by the association, 50 East 41st street, New York.

ODM Names Miss Sleeper

Arthur S. Flemming, director, Office of Defense Mobilization, has announced the appointment of Miss Ruth Sleeper as a member of its health resources advisory committee. The committee, of which Dr. Howard A. Rusk is the chairman, gives policy advice to the President and the ODM Director in the health fields and coordinates the health activities of the various Government departments and agencies. Miss Sleeper is director of the School of Nursing and Nursing Service, Massachusetts General Hospital, and is president of the National League for Nursing.

Plant Nutrient Supply

—*Continued from page 4*

ing new plant capacity for nitrogen the report stated:—

"Prior to June 30, 1953, there had been installed new plant capacity equivalent to approximately 293,000 tons of nitrogen per year. This, of course, included the Morgantown Ordnance Works, which plant was reactivated in 1952. Of the 283,000 tons of capacity completed prior to June 30, 1953, an amount equivalent to about 6,000 tons was carried over into 1953-54. This amount, added to the 274,000 tons of effective capacity completed, would mean that during 1953-54 there may be as much as 280,000 tons more of nitrogen capacity available than was available in 1952-53. This figure represents only scheduled capacity that may be available to produce nitrogen for agricultural purposes as well as for defense and industrial uses. Construction scheduled or subject to delay and the time of completion of the various units will affect the capacity available in the given fiscal year.

New 1954-55 Capacity Estimated

The report also estimated probable new capacity available for 1954-55 at 576,000 tons and said that additional plant capacity of 300,000 tons in various stages of planning has been proposed for construction after June 30, 1955. Some of the proposed units may not be constructed, however, the report added.

As regards phosphates, the report commented that plant capacity totaling 390,000 tons had been completed prior to June 30, 1953, of which 137,000 tons would not be available until 1953-54 because of the completion dates of producing units. This carryover of capacity, plus 180,000 tons of estimated effective new capacity to be completed in 1953-54, totaled 325,000 tons that could be available in 1953-54. However, the report said present indications are that the 1953-54 supply will not be increased by this amount.

Potash Output Facilities

The report said that the potash production capacity as of June 30, 1953, amounted to about 2,000,000 tons, which was sufficient to meet the goal set by the Defense Production Administration. In addition, one new shaft is being sunk in the Carlsbad, N. M., area and two new shafts are contemplated in Lee County, N. M., for the near future. The report added that producers operating in the Carlsbad area have doubled their storage facilities in the last two years.

Essential Oils, Other Aromatics

Demand for essential oils and aromatic chemicals showed uncertainty as most buyers made purchases for immediate needs only. The effect of this hesitancy was to add to the difficulty of spotting definite price movements. Over the past week, reductions outweighed advances, although the items moving up were expected to become still firmer, while the reductions were not expected to be followed by further declines in those particular items. The index fell off 0.82 point to stand at 145.75.

Peppermint oil prices were moved up at the source and the advance affected almost all concerned, as spot supplies were also firmer. Quotations for both natural and USP material were affected. The advance had been expected for some time, as many quotations for the oil had dropped too low. The present strengthening was looked at as a realistic return to earlier levels. Spearmint oil prices were so far unaffected by this movement. Grapefruit oil advanced, in accord with the longstanding situation of short supply. No easing in this tightness was seen in the making as yet. Mexican lignaloe wood oil was moved up from one source, and the material continued to received an active call.

Among the items reduced, most important to many consumers was orange oil. California and Florida material weakened. The movement was considered a seasonal adjustment. Clove oil, from buds, continued its decline. There was no indication when the material would level off, and as long as raw material costs continued to weaken, the oil would present a weak aspect. A further decline was reported by one source of celery seed oil, continuing the recent trend for this item. Crude birchtar, cumin and technical cajeput oils were lowered, as were origanum and sweet birch.

Prices for lemongrass at the origins were moved up, indicating that the spot market could become firmer in a very short period of time. A reduction in spot goods from one source during the past week ran counter to this general trend. Vetiver oil was again weaker at the sources, but made no further decline on spot. The price outlook for this oil was felt to be quite weak, however, and further reductions were seen to be developing. Geranium prices held their own, but were beset with an undercurrent of uncertainty, with the extent of demand remaining doubtful. Reports of poor crop prospects for spike lavender helped firm this article.

Price Trends

Advanced

Oil, grapefruit, 25c. per lb.
Lignaloe wood, Mex., 25c. per lb.
Peppermint, nat., 30c. per lb.
redist., USP, 40c. per lb.

Reduced

Oil, birchtar, crude, 4c. per lb.
Calamus, $7 per lb.
Cajeput, tech., 15c. per lb.
Celery seed, 25c. per lb
Clove, USP, 25c. per lb.
Cumin, 10c. per lb.
Lemongrass, 5c. per lb.
Orange, sweet, exp., Cal., 6c. per lb.
Florida, 3c. per lb.
Origanum, red, 5c. per lb.
Sweet birch, Northern, 70c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
145.75	146.57	147.84	166.81

(*For Current Prices see page 9*)

Essential Oils

Avocado—This item was available from only one source, at a price of $3.25 per pound in ten pound tins. Used chiefly in face creams for its absorbent properties, production of the oil has been limited during the past months and was expected to remain so in the immediate future. The usual source of the product was reported to be fruit which for one reason or another could not be shipped to consumers.

Apricot Kernel—Production and replacement costs have remained stabile over the past weeks, enabling dealers to maintain their price quotations for this oil. A range from 37c. per pound was reported during the past week, and most quotations were not expected to move widely in the coming weeks.

Bergamot—The prices for natural oil had been expected to break during the coming weeks, due to the influence of new crop production. The recent floods in Italy, particularly in the department of Calabria, damaged a sufficient number of trees to make the next production less hopeful. Dealers were uncertain whether a drop in prices could materialize under these conditions. However, some observers stated that the long-term outlook indicated some price reductions, since many in the trade felt the oil to be too expensive to meet with the demand that it would encounter at lower prices. Soap manufacturers were said to be unable to take large quantities of the natural article at the prices levels in effect recently, and were using instead various synthetic substitutes.

Birchtar—The crude grade was reduced 4c. per pound from one supplier, bringing the low-of-the-range for this grade to $1.76. The rectified material, of NF specifications, continued at its current quotations of $2.50.

Cajeput—The technical grade oil was lowered when one supplier revised its quotations. A new low-of-the-range of $1.75 per pound was quoted, showing a drop of 15c. Prices from other suppliers were unchanged, as were quotations for the redistilled, USP material. Shipping prices were fully maintained and showed no indication of weakening in the immediate future.

Calamus—A price of $12 per pound in one-pound bottles was offered from one source, bringing the range for this oil down from the earlier minimum of $19. Demand for this oil remained comparatively small, as did the sources from which it was offered.

Cedarleaf—Not very much material was available on the market, dealers stated. A lower production was cited as the reason for the pinch in supplies. Prices ranged from $2 per pound for material of USP XIII specifications, while the technical grade ranged widely at prices under this minimum.

Celery Seed—The market was a good deal weaker over the past week, and spot prices tended to move downward. An earlier low-of-the-range of $15.75 per pound was reduced by 25c. The decline extended the weakness in quotations noted over past weeks, during which time, almost all price changes have been in a downward direction.

Chamomile—Material was offered by a number of dealers, but commanded no exceptional interest from consumers. Prices ranged from $175 per pound for blue, Hungarian oil. English was quoted from one source at $100 per pound.

Cinnamon—A moderate inquiry for bark oil was noted in the trade, and was filled without undue difficulty from spot stocks. Leaf oil ranged upward from $1.25, with any price movement expected to be in an upward direction. Seychelles was quiet on offers in the past ten days, it was reported.

Citronella — Shipping prices at the sources continued to show considerable strength and gained more ground over the past week. Both Formosan and Ceylon material have been affected by the rise in cost, and the local market has turned accordingly stronger. As to the future trend of the oil, dealers stated that they could not determine as yet whether any further advances would be made but, that "only time would tell."

Clove—The recent weakening trend in bud oil prices has resulted in quotations ranging from $5.25 per pound and up, in drastic contrast to the price level in effect during the first three quarters of the year. Lower costs for the raw material accounted for the drop, and were expected to produce further reductions in quotations for the oil.

Cumin—Oil from cumin seed was slightly lower as one supplier last week announced a 10c. per pound reduction from its earlier quotation of $4.25. Replacement costs worked against any further reductions in the immediate future, it was stated in the trade.

Dillseed—A price range of $2.80 to $4.25 per pound last week replaced the single quotation of $2.80 maintained earlier. Inquiry was reported as slightly on the weak side, but as not showing any marked trend downward.

Fennel Seed—Dealers made few changes in quotations for the material over the past week. A minimum of $2.25 per pound was maintained, while other quotations ranged upward to $3.25.

Geranium—Prices at the sources were lowered for both Algerian and Bourbon material. The reductions indicated that further weakening on local prices could

For Late Market Developments, See Page 4

Since 1895

Magnus Means Reliability

In importing, manufacturing and exporting Aromatic Chemicals and Perfume Bases, MM&R has always maintained the highest standards of quality. We have the most complete line of Aromatic Chemicals and Perfume Bases—all proven sales-builders and within the reach of any budget.

Consult your local MM&R representative — the MAGNA man — for full listings or write direct to New York.

Magnus, Mabee & Reynard, inc.

Since 1895 ONE OF THE WORLD'S GREATEST SUPPLIERS OF ESSENTIAL OILS

16 Desbrosses Street, New York 13, N. Y. • 221 North La Salle Street, Chicago 1, Illinois

PRODUCED AT OUR OWN FACTORY Est. 1885

Over 65 years young and still pioneering.

Oil Celery — Oil Nutmeg USP
Oil Clove USP — Oil Patchouli
Citral — Oil Sandalwood NF

GEORGE LUEDERS & CO., Incorporated

427-429 WASHINGTON STREET, NEW YORK 13, N. Y.

Chicago • San Francisco • Montreal • Factory: Brooklyn
St. Louis • Philadelphia • Los Angeles • Toronto
Shreveport, La. • Vancouver, B. C.

GEORGE LUEDERS & CO. NEW YORK GL

Florasynth LABORATORIES, INC.

1533 OLMSTEAD AVE • N. Y. 61, N. Y.

SUPREME AROMATICS
ESSENTIALS • FLAVORING
PERFUME • OILS

Chicago 6, Los Angeles 13 and other principal cities in the U. S., Canada and Mexico

Proven Replacements For: BERGAMOT OIL, CITRONELLA OIL, LAVENDER OIL, LEMONGRASS OIL

ESSENTIAL OILS • PERFUME OILS • FLAVORS • AROMATIC CHEMICALS and ODOR MASKS

DOMESTIC EXPORT — YOUR INQUIRIES SOLICITED

D. W. HUTCHINSON & CO., INC., 162-164 Front St., New York 38, N. Y.
Founded 1896 — Telephone: WHitehall 3-4774

IF YOU USE CITRAL . . .

. . . and you haven't yet tried CITRAL by FRITZSCHE, we believe you'll be surprised – in fact, *pleasantly* surprised – to discover the availability of a product so favorably priced, yet so superior in its fine lemonlike character, so free of undesirable chemical by-notes, so remarkably pure and stable. It's really worth a trial to make such comparison and we'll be glad to supply FREE sample for this purpose. Just address us on your letterhead.

FRITZSCHE Established 1871 Brothers, Inc.

PORT AUTHORITY BUILDING, 76 NINTH AVENUE, NEW YORK 11, N. Y.

IT'S TRULY THE BEST!

BRANCH OFFICES and *STOCKS: Atlanta, Georgia, Boston, Massachusetts, *Chicago, Illinois, Cincinnati, Ohio Cleveland, Ohio, *Los Angeles, California, Philadelphia, Pennsylvania, San Francisco, California, St. Louis, Missouri, *Toronto, Canada and *Mexico, D. F. FACTORY: Clifton, N. J.

DENTAL FLAVORS BY D&O

When Mr. Average Consumer places his order at an ice cream counter, the question "What Flavor" is automatic. The assumption that he buys his tooth paste or powder also on flavor preference is less directly indicated . . but no less evident in the decline or growth of such a product's repeat sales. D&O has developed a very complete line of water soluble flavors and peptized oils for specific application to oral and dental preparations. Specially treated for solubility these compounds offer great diffusibility in pastes and powders, as well as the utmost in flavor value. Send us a sample of your unflavored material for individual testing with various flavor combinations.

D&O ESTABLISHED 1796

Our 155th Year of Service

DODGE & OLCOTT, INC.

180 Varick Street • New York 14, N. Y.

Sales Offices in Principal Cities

ESSENTIAL OILS • AROMATIC CHEMICALS
PERFUME BASES • VANILLA • FLAVOR BASES

AROMATICS VERONA DIVISION

Your Calling Card to Quality

AROMATIC CHEMICALS
INDUSTRIAL ODORANTS & DEODORANTS
CUSTOM FRAGRANCES FOR
PERFUMES, COSMETICS & TOILETRIES

SOLE REPRESENTATIVES IN THE UNITED STATES
FOR J. & E. SOZIO, GRASSE, FRANCE

NATURAL ABSOLUTES & RESINOIDES
ESSENTIAL OILS

AROMATICS DIVISION
VERONA CHEMICAL COMPANY, NEWARK, N. J.

Rx FLAVORING ESSENTIAL OILS FOR:

Pharmaceuticals

Birch, Peppermint, Spearmint, Wintergreen, Citrus Oils, Raspberry, Strawberry, Cherry
Spice Oils and Oleoresins

Prices Right • Delivery Fast

DREYER

119 W. 19th St. • New York 11, N. Y.
Write for Samples and Dreyer Catalogue

ROURE-DUPONT INC.

General Office

366 MADISON AVE., NEW YORK

Chicago Branch
510 North Dearborn St.

Los Angeles Branch
5517 Sunset Blvd., Hollywood

Sole Agents in U.S.A. and Canada for

Roure Bertrand Fils and Justin Dupont

Grasse (A.M.) France Argenteuil (S.&O.) France

ESSENTIAL OILS
AROMATIC PRODUCTS

result, continuing the trend of the past thirty to sixty days. Algerian on spot ranged from $8.75 per pound, and Bourbon from $10.60.

Grapefruit—Prices advanced over the past week. A minimum quotation of $2.90 per pound was moved up, leaving a quotation of $3.15 as the low-of-the-range. The supply situation for this oil remained unfavorable, and was expected to show no sizeable easing in the coming weeks. Demand continued steady, the trade reported.

Lavender — Trade sources stated that there definitely was sufficient material available to cover the current needs of the market. No shortages were expected to develop during the coming weeks, although routine fluctuations in prices were not discounted.

Lemon—California material was firm, with the expected production from the December crop not found to be working any influence on the price situation. Quotations ranged from $7.10 to $7.50 per pound, according to brand. Messina oil was not available in sufficient quantities to make up for the scarcity felt in the market. Top quality Italian oil was priced too high to have a wide acceptance at the present time, trade sources stated.

Lemongrass—An attempt to push the shipping cost of the oil upward at the source was noted by dealers in this country. The increase has had the immediate effect of strengthening spot prices. Further advances on spot were expected to develop if the strength at the sources proved to be maintained. This was a matter in which only time would tell, according to trade observers. One recent offer of 90c. on spot appeared to be well under the minimum from other sources, and not in keeping with the current trend, which has caused prices to range between $1 and $1.45 per pound.

Lignaloe Wood — The low-of-the-range price of Mexican oil was advanced 25c. to $3.50, according to a revised quotation from one source. From other sources the material was unchanged in price. A good inquiry has been maintained, with a large part of the demand arising from the oil's possibilities of replacement for Brazilian bois de rose oil.

Lime—Some reported efforts to set up a monopoly of lime oil production in Mexico have as yet made little headway, it was stated in the trade. The results of the attempt, if successful, would be to raise prices for both the distilled and the expressed varieties of oil. This would be difficult at the present time, no matter what the production circumstances, trade sources maintained, because the season of heavy demand is still some three to four months away. Prices over the past week remained steady, with distilled Mexican material ranging from $5.25 per pound and West Indian, from $5.90.

Ocotea Cymbarum—Demand for this oil has been hurt considerably by substitutions of Japanese camphor oil in at least some uses, it was stated in the trade. The manufacture of heliotropine, however, has continued to make use of ocotea cymbarum oil, as camphor has proved unsuccessful for this purpose.

Orange — Prices from several sources were weaker in the past week. California expressed oil was offered from 70c. per pound, 6c. below the earlier low-of-the-range. Other quotations for this type material ranged to $1.25, with the brand of the material constituting the deciding factor in the price. The current minimum price was not met in all directions, as a number of dealers maintained that they could not lower prices to this level. Florida oil was also lower, moving down to a minimum of 65c. per pound, this price representing a 3c. decline. The future price position of the oil was not easily assayed, as the demand over the coming weeks, as well as the amount of material arising from the next production, were expected to be the deciding factors.

Origanum—The price of red oil was lowered by 5c. per pound, bringing the minimum quotation down to $1.95. This offer was made for material with a 20-25% phenol content. Prices for the higher percentage oil ranged 20c. or more above this quotation.

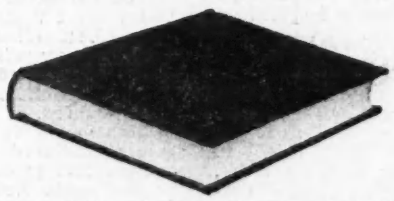
Peppermint — Prices firmed noticeably over the past week, a development that had been expected by those in the trade some time previously. Natural oil was up to a minimum of $4.80 per pound, a jump of 30c. above the minimum price in effect just before. Redistilled, USP, oil was also moved up, going to a low-of-range of $5.20, an advance of 30c. The advances came as a result of stronger views at the source. No one in the trade, however, would say whether further increases were to be expected, but said that it would be necessary to wait for additional developments before stating what trend appeared to be in the making.

Spearmint — Prices remained steady over the past week, in sharp contrast to

To guide you in

Control of air pollution

seven panels of experts offer well-checked facts and methods



Here is a systematic presentation of some of the most useful information that has been amassed about the pollution of air; its effects on human, plant, and animal health; the measures that are being taken to control it successfully; the legal and administrative problems that are being overcome in connection with pollution prevention and control.

AIR POLLUTION

Proceedings of the United States Technical Conference on Air Pollution

Sponsored by the Interdepartmental Committee on Air Pollution

Chairman: Louis C. McCabe, formerly Chief, Office of Air and Stream Pollution, Department of the Interior

847 pages, 7½x10, 285 illus., 85 tables, $12.50

These are the specific, authoritative facts presented at a top-level government conference on pollution—a conference that brought together experts in every phase of the problem. Here is the picture of how contamination of the air affects humans, livestock, and crops, and of which chemicals are really dangerous and which are not. Here are detailed analyses of different contaminants, with methods for finding the nature and degree of pollution. Included is a discussion of the very latest equipment for pollution control, with an explanation of how each kind works and what its limitations are. The section on instruments describes and explains best practices of measuring the kind and degree of pollution. One section covers the legal problems involved in drawing up and enforcing pollution control statutes. The interrelation of weather and climate and pollution problems is fully treated.

A few of the 97 topics covered:

- Fluoric contamination of livestock
- Pollution from mine refuse piles
- Sulfur dioxide and conifers
- Relation of particle size to pollution
- Physical properties of aerosols
- Use of the electron microscope
- Use of the midget impinger
- Chemical analysis of pollutants
- Fluorometric analysis
- Spectrographic analysis
- Odor control practices
- Catalytic combustion of hydrocarbon vapors
- Dry fibrous filters
- Viscous impingement filters
- Venturi scrubbers
- Use of activated carbon
- Design of incinerators
- Effects of prolonged exposure
- Stack meteorology

Send your order with remittance to:

SCHNELL PUBLISHING COMPANY, INC.

30 CHURCH STREET NEW YORK 7, N. Y.

peppermint oil, which was firmer. No immediate change in quotations for spearmint oil was in the process of developing, according to informed trade sources. Spot prices ranged upward from $5.75 per pound.

Sweet Birch—Northern oil prices occupied a wider price range as the minimum was lowered to $4.25, down 70c. per pound. There was no change in the quotations for Southern material, which ranged upward from $2. Inquiry was reported as steady for this item and was not expected to show any sharp change in the coming weeks.

Tansy—Prices were lowered over the past week as two sources offered material at $7.75 per pound. These offers were 50c. per pound under the earlier low-of-the-range. Quotations from other dealers ranged upward to $9 per pound. The revised quotations were offered for domestic material, originating in the mid-Western tansy oil producing states.

Vetiver—The sharply reduced prices noted in the week previous showed a tendency to drop further, rather than to hold their own. Replacement costs at the source were lowered for Bourbon, Java and Haitian material. The decline was attributed to a reduced inquiry, which has induced holders to lower their expectations.

Wormseed—Prices continued to range well below the levels in effect prior to the arrival of new crop material on the market. A price of $5.50 per pound formed the low-of-the-range. No immediate firming was expected in the trade, chiefly by reason of the comfortable supplies now in hand.

Ylang-ylang — This market remained without special feature. A strictly routine inquiry was encountered in the trade, and prices, both on spot and for replacement, were unchanged.

Aromatic Chemicals

Anethol—An exceptionally heavy demand from consumers has been noted by manufacturers and dealers over the recent weeks. A large part of the increased inquiry was felt to be derived from the near-absence of anise oil from the market and the consequent necessity of users to turn to substitutes to replace it. A continued good call was expected over the coming weeks. Prices for NF material ranged upward from $1.25 per pound, while the technical grade was priced from 75c.

Musk—Prices for synthetic material held steady. The most recent price schedules effected by the makers included quotations of $5.15 per pound for ambrette, $5.30 for ketone and $1.40 for xylol. These prices were offered for purchases of 100 pound drums or more. Demand for the synthetic material was reported steady. All requirements for musk had to be filled with synthetic material it was stated, as the market was devoid of stocks of the natural article.

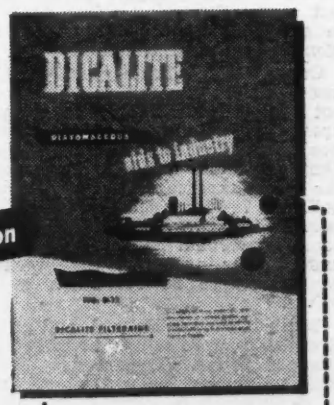
Paracresol Methylether—Material was available from $1.90 per pound, a low-of-the-range quotation that has been in effect throughout the year. The producers expected no immediate changes in prices. Supplies were held to be adequate for the present rate of inquiry, and a comfortable balance was expected over the coming weeks.

Polak & Schwarz
Incorporated
667 Washington Street
New York 14, N. Y.
173 West Madison St.
Chicago 2, Ill.
•
Perfume Specialties
Flavors
Aromatic Chemicals
Essential Oils
Colors
•
AFFILIATED COMPANIES:
Zaandam—Holland
Enfield—England
Bois-Colombes—France
Brussels—Belgium
Reinach—Switzerland
Stockholm—Sweden
Rio de Janeiro—Brazil
Buenos Aires—Argentina
Toronto—Canada

Respected MASCHMEIJER Quality . . .
BENZYL ACETATE
BENZYL ALCOHOL
BENZYL BENZOATE
. . . and Other Aromatic Compounds
A. MASCHMEIJER, JR., Inc.
43 W. 16th St., New York 11, N. Y. Phone: CHelsea 2-7136
One of the World's Largest Producers of Fine Aromatics

AROMATIC CHEMICALS — PERFUME MATERIALS
Van Ameringen Haebler, inc.
521 WEST 57th STREET
NEW YORK 19, NEW YORK

HEADQUARTERS FOR **ROSIN OIL**
WRITE FOR OUR 'PINE TREE PRODUCTS' BOOKLET
NATIONAL ROSIN OIL PRODUCTS, INC.
The Americas Bldg., Rockefeller Cntr. 1270 Av. of the Americas, N. Y. 20, N. Y.
Offices: 3001 West 47th Street, Chicago, Ill. Factory: Savannah, Ga.

FILTER IT RIGHT . . . with Dicalite®
. . . and here's valuable data on filtration


DICALITE BULLETIN B-12 gives a wealth of authoritative data on effective methods of filtration, applicable to the processing of essential oils, penicillin and other antibiotics, and other pharmaceuticals. Write, today, for your free copy, to
DICALITE DIVISION
GREAT LAKES CARBON CORPORATION, Dept. POD, 612 SO. FLOWER STREET, LOS ANGELES 17, CALIF.

WHEN IT *Smells better* ...IT *Sells better!*

Simple statement of fact. . . . yet of profound importance to the success of so many products. Pleasant fragrance adds a third dimension in product appeal and so often is the necessary ingredient for its success. Unfortunately, too many ill-advised perfumes are used for this purpose — perfumes that are inadequate for the job intended.

FELTON has specialized over the years in effective perfumes for all types of consumer and industrial products. That's why you can rely on us with absolute confidence to supply . . .

CORRECT PERFUMES FOR
• PAINTS • INSECTICIDES • SOLVENTS
• DISINFECTANTS • LATEX • DETERGENTS
• CLEANING FLUIDS • TEXTILES • SOAPS
and many other INDUSTRIAL PRODUCTS

WRITE US ABOUT YOUR PERFUMING OR NEUTRALIZING PROBLEMS. WE'LL GIVE YOU THE RIGHT ANSWER, without obligation.

AROMATICS • ESSENTIAL OILS • PERFUME BASES
FELTON CHEMICAL COMPANY, INC.
599 JOHNSON AVE., BKLYN., 37, N. Y.
PLANTS: Brooklyn, N. Y. • Los Angeles, Cal. • Montreal, Que. • Versailles (S&O) France
SALES OFFICES: Atlanta • Boston • Chicago • Cleveland • Dallas • Philadelphia
St. Louis • Toronto Stocks Carried in Principal Cities

Greeff

SERVING THE CHEMICAL INDUSTRY SINCE 1880

TRICRESYL PHOSPHATE

•

DIOCTYL PHTHALATE

R. W. GREEFF & CO., INC.

10 ROCKEFELLER PLAZA, NEW YORK, N. Y.

TRIBUNE TOWER, CHICAGO, ILLINOIS

PICCOLASTIC

SYNTHETIC RESIN

A GREAT GROUP OF RESINS with outstanding properties

VARIETY—Available in a wide range of melting points, molecular weights, solvencies and other properties.

PERFORMANCE—Piccolastic synthetic resins are stable—styrene based, readily soluble and unsaponifiable.

RESISTANCE—Both alkaline and acid resistant.

ACCESSIBILITY—Used in manufacture of coating compositions, adhesives, laminants, impregnants, molded products, printing inks and other products.

Write for complete information on various grades and samples for examination and testing

PENNSYLVANIA INDUSTRIAL CHEMICAL CORP.

CLAIRTON, PA.

Plants at Clairton, Pa.; West Elizabeth, Pa., and Chester, Pa.

Distributed by Pennsylvania Falk Chemical Co., Pittsburgh 22, Pa. and Harwick Standard Chemical Co., Akron 5, Ohio

Protective Coatings Materials

The index jumped last week, as Congo copals increased in price, and shellacs grew firmer. On the down side were Argentine casein, reduced due to lack of domestic buying interest, and diethyleneglycol monomethylether, as distributors reported plenty of material on hand. Cobalt oxide containing 70-71 percent cobalt sold at $1.90 last week. Trade in prime pigments was slow, with no price changes reported for lead and zinc pigments. Other colors held steady as most sources reported a slightly easier demand. Stocks of most pigments were regarded as comfortable.

There was little doing in the synthetic resins market last week, as interest continued to center primarily on research and development. New disclosures of developments on epoxys was expected for the second quarter of next year. Shortages in these resins were expected to be relieved when new plants went into operation in the near future. The same situation existed in the case of polyvinyl butyrals. Tight supplies were currently being allocated, but it was thought that new facilities would increase output substantially by the first of the year. Coumarone indenes were plentiful, as were alkyds and phenolics.

At least two producers of dibutyl phthalate were selling at drum differential prices under those of the industry in general. There were unsteady undertones in the plasticizer market, as one maker who recently increased drum differentials on dioctyl phthalate lowered prices to meet offerings of most other producers. A sharp reduction was affected in diethyleneglycol monomethylether, and drum differentials were increased for ethyleneglycol monoethylether acetate. There was no significant change in tributyl phosphate, or tricresyl phosphate.

Undertones of extreme firmness were prevalent in natural resins during the week. Copal congos were particularly strong. Although trade in this country was reported easy, foreign buying in extremely large quantities was said to have kept backlogs to a minimum. The Calcutta market for shellac, firm for some time, expressed itself in increased listings for orange grades in the domestic market. New prices were judged stable, with domestic buying average.

Among fillers and inserts, barytes was said to be going good last week. Whiting, clay, and gypsum underwent no changes in price, but were said to be moving well to an evenly sustained consumer interest. Casein still suffered for lack of buyers in this country, with material actually selling at below replacement cost. Cashewnut shell liquid was without feature. Cobalt soaps were expected to move upward in price by the end of November.

Prime Pigments

Antimony Oxide—Demand held limited and steady for this pigment. There were no price changes. Producers felt that all incoming orders could be filled by present stocks.

Cadmium Colors—Orange, red, and yellow CP and lithopone pigments still moved well to a steady buying interest last week. Unvarying prices contributed to general market stability. There was plenty of material available.

Cobalt Oxide—There was little change last week. It was felt that demand had not been seriously dampened by recent upward price adjustments. Although it was pointed out that interest at the moment was quite desultory as a result of the price increase of 14c. per pound for both the 70-71 percent and the 72½-73½ percent types, it was generally felt that consumers would have to come into the market after inventories were worked off, as there were no substitutes at lower prices.

Earth Colors — Natural and synthetic iron oxides were said to be selling at unchanged prices. Demand was thought a little off during the past week. Supplies of earth colors in general were plentiful. It was the opinion of one source that prices would not change in the near future.

Iron Blues—While some sources felt that demand was slightly lower than the previous week, others reported that there was a slight upward trend in sales. This situation applied not only to iron blues, but to most other dry colors. All sources agreed, however, that present output and stocks were plentiful. Despite some indications of a mildly fluctuating demand position, prices were judged firm.

Lead Pigments — The market situation was considered relatively dull for all types. Little of note occurred in transactions during the week. White and red pigments, as well as orange mineral held at old prices. Stocks were comfortable.

Titanium Pigments — Titanium dioxide moved in good quantities during the week. Calcium-rutile pigment also sold well, as consumer interest seemed fully recovered from price changes made some weeks ago. Production and stocks were judged sufficient enough to fill customer orders. It was thought that prices would remain the same for the time being.

Zinc Pigments — Previous prices held. Trade was thought rather quiet last week, with a slight decline in interest noted. There was plenty of material available to fill customer requirements.

Synthetic Resins

Alkyds — Consumer interest was considered normal for this time of year. Present production was directed in large part toward filling future contracts. It was thought, moreover, that demand, although high now, would probably taper off to some extent in the next few months as contracts were filled. Prices were firm and unchanged.

Coumarone-Indenes — Easing supplies were reported last week. Demand was said to have decreased slightly during the past few weeks. Enough stocks were on hand to take care of immediate needs. Quotations were unchanged.

Epoxys—This resin was still one of the few in short supply. It was hoped that the tight position would be alleviated when new production facilities were put into operation. Demand continued strong, stimulated by active resarch and development. Prices were stable and unchanged.

Phenolics—Sales were reported ahead of last year in most cases. Nevertheless, consumption by the paint trade was thought lower than previously. Production was adequate enough to furnish consumers with as much as they could use. There were no price changes.

Polyvinyls—Chlorides and acetates were reported sufficient enough to fill orders in most instances. However, producers found it necessary to distribute polyvinyl butyral on an allocation basis last week. It was hoped that shortages would be alleviated soon by new facilities and greater production. No price changes were reported.

Polyethylenes—The main point of interest continued to be the fact that these resins were reduced in price a short time ago. It was felt that due to the reduction, wider applications would be found. Meanwhile, manufacturers experienced some difficulties in filling consumer orders. It was expected however that material would soon be plentiful as new plants came into operation.

Polystyrenes — Buying interest continued good for nearly all types of these resins. Sales to the paint trade were said to have declined slightly under previous levels. With the prospect of new plants going into production, it looked to most sources as if there would be no shortages.

Lacquer Materials

Dibutyl Phthalate—Call for this plasticizer was good during the week. At least two producers still held at ¼c. per pound under most others in carlot and less carlot drum prices. Otherwise, quotations were without feature. Plenty was being produced, so that consumers could get all they needed.

Diethyleneglycol Monomethylether — A 5c. per pound reduction was in effect last

For Late Market Developments, See Page 4

Price Trends

Advanced

Gum, copal, Congo, No. 1, 1c. per lb.
No. 2, 1c. per lb.
No. 3, 1c. per lb.
Shellac, lemon No. 1, 1c. per lb.
No. 2, 2c. per lb.
Superfine, 2c. per lb.
TN, 2c. per lb.

Reduced

Casein, Argentine, ¼c. per lb.
Diethyleneglycol monomethylether, 5c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 24, 1952
92.88	92.84	90.23	88.44

(*For Current Prices see page* 9)

week for tank cars, at works. Selling price was 18½c. per pound. Carlots of drums sold at 20c. per pound, 4¾c. under old listings. Less carlots were sold at 21c. per pound, also a reduction of 4¾c. It was felt that present market conditions warranted a decrease in cost.

Dioctyl Phthalate — Production schedules were such that consumers could buy as much as they needed. Demand was steady. One manufacturer who recently raised drum differentials ¼c. last week lowered prices in order to keep in line with the general current price for drums in carlots and less carlots.

Ethyleneglycol Monoethylether Acetate —Drum differentials were raised ¼c. per pound last week by one company, which cited increased costs of drum packaging. The new drum carlot price was 18½c. per pound, while the less carlot price was 19½c. per pound. Tankcar prices remained same.

Natural Resins

Copal Gum—Congo gums were much firmer last week, due to foreign buying of large magnitude, particularly from Germany and Japan. The market in this country was described as steady, with buying interest moving at an "immediate needs" pace. Other copals were also running strong on foreign markets, with inquiry in this country fairly stable.

Dammar Gum—Strong foreign interest kept prices steady. Domestic buying was limited to immediate needs. Recently reduced prices for intermediate chemicals used in the making of synthetic resins was expected to have some effect on future buying here. Supplies were considered low, but adequate enough to satisfy consumer needs.

Shellac—The market at Calcutta continued to show signs of increasing strength last week, as all orange grades went up. Lemon No. 1 increased 1c. per pound, while No. 2 rose 2c. per pound in price. The former was selling at 40c. per pound, and the latter at 39c. The new range for superfine was 36c. to 38c., an increase of 2c. per pound, while TN went at from 34c. to 35c. per pound, having increased 2c. to 3c. per pound depending upon market conditions. Continued firmness was expected by most sources. Trade in this country was characterized by moderate demand and good supply.

Fillers and Extenders

Barytes—Material was said to be moving well last week. Supplies were regarded as adequate enough to meet the immediate needs of customers. There were no price changes, despite some instances of increased costs of freight and labor.

Gypsum—The supply situation continued to vary, but it was felt by most observers that at no time were stocks in danger of being short. Listings held at an even keel. No changes were expected.

A recent Bureau of Mines report discloses that 8,415,300 tons of crude gypsum were mined in the United States in 1952. This figure compares with 8,665,534 tons mined in 1951, and 8,192,625 tons produced in 1950. Demand for wallboard continued high, it was said, as well as inquiry for sanded plaster. Imports of crude gypsum into the United States in 1952 declined 11 percent under figures for 1951.

Miscellaneous Materials

Casein — Although replacement cost from the Argentine was 22c. per pound, material continued to sell in this country at from 20½c. to 21½c. per pound, a ¼c. decrease under the previous week's prices. Domestic consuming mills continued to hold back from buying, as paper coaters preferred to work off what stocks they had left. Although it was felt by some sources that large consumers in this country would not resume interest until after the first of the year, other observers were of the opinion that inquiry would begin sooner than that, due to the fact that next year was to be a big year for advertising copy, which would require a sizable amount of coated paper.

Cobalt Linoleate—Prices were as yet unaffected by the increase in listings for cobalt metal and oxide effected a short time ago. However, it was expected that this metallic soap, as well as naphthenates, tallates, and resinates of cobalt would momentarily reflect the advances. Buying interest in these agents was regarded as not too heavy at present. Stocks were available to cover orders.

Naval Stores

Alphapinene—Current prices were made available, with a tankcar price of 30c. per gallon, f.o.b. southern shipping points.

Dipentene—Steam distilled sold for 58c. per gallon in drums, carlots, at works. Tankcar listing was 55c. per gallon. Less carlots delivered in New York sold at 87c. per gallon.

Pine Oil—Material was currently being offered at from 14.3c. to 15.3c. per gallon on a New York City ex warehouse basis. There was little available except for already established consumers.

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.	Wed.	Thur.
Drums—					
K	$7.77‡	$7.79	$7.80	...	...
M	7.75	...	7.80	...	...
N	7.80	...	...	$7.80	...
WG	7.87	...	...	7.91	7.78
WW	7.94	...	7.945‡	...	7.96
Bags—					
K	...	...	...	7.65	...
M	7.65	...	...	7.65	...
N	7.70	...	...	...	...
WG	...	7.73	...	...	...

Tankcars (for week ended November 13)— N $7.37‡, M $7.41, K $7.36, 1,185*.

Sales, USDA

1,055*	3‡	4‡	547*	200*

New York

(per 100 lbs., c.l., Friday)

B through N $8.75, WW $8.90, WG $8.75.

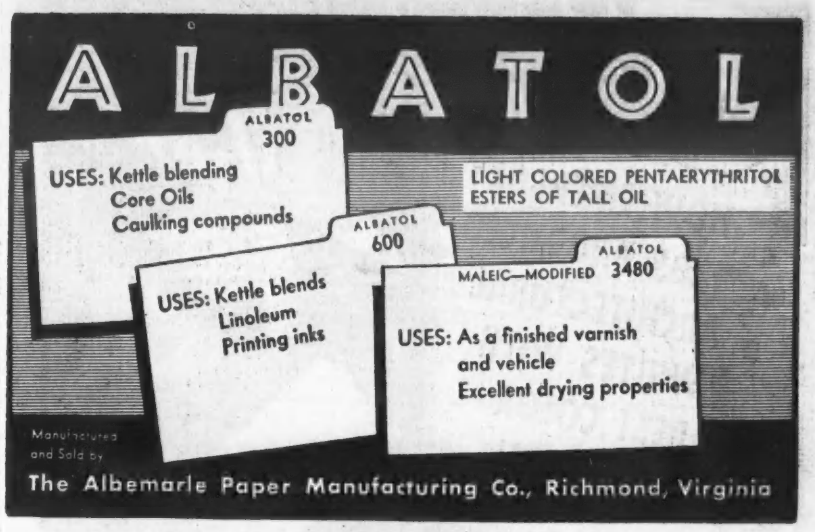
Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.52	...	.524‡	...	...
Sales	20,000¶	...	12,000¶	...	...

New York, Friday, per gal., 7 lbs., tankcars, 61c., l.c.l. 73c.

*Drums equivalent. ‡Carlots. ¶Gallons. ‡Average price.



Extend and improve your paint formulations with WITCARB®—

(precipitated calcium carbonate)

WITCARB, a pure white extender pigment, is available in three grades:

WITCARB REGULAR (fine particle size) extends paint formulations . . . provides better hiding, easier brushing, greater retention of gloss, superior stabilization.

WITCARB P (very finely divided). Developed especially for paint. All the properties of Witcarb Regular, plus increased viscosity. Reduces tendency of paint to settle, helps prevent sagging of fresh film, gives uniform color of greater depth without impairing mass tone or gloss. Reduces flooding, floating.

WITCARB R (finest particle size). Recommended for dipping paints, wrinkle finishes, baking and air-dry enamels and interior enamels. Reduces sagging and flooding . . . improves color uniformity, binding power and gloss.

Write today for complete information.

Call on **WITCO** for these Witco-Manufactured quality products

Aluminum Octoate
Asphalt
Asphalt Specialties
- Automobile Undercoatings
- Rust Preventives
- Sound Deadeners
- Vibration Dampeners

Carbon Blacks
Copper Hydroxy Naphthenate
Copper Linoleate
Copper Oleate
Copper Naphthenate
Driers
- Naphthenic Acid Driers
- Lead-Cobalt-Calcium
- Manganese-Zinc-Iron
- Octoic Acid Driers
- Calcium-Lead-Cobalt-Zinc
- Witall® (Tall Oil) Driers
- Lead-Coba't-Manganese-Iron

Esters
- Butyl Oleate
- Butyl Stearate
- Dibutyl Adipate
- Dibutyl Phthalate
- Diocty Phthalate

Lead Linoleate
Lead Oleate
Metallic Stearates
- Aluminum Lithium
- Barium
- Cadmium
- Ca'cium
- Iron
- Lead
- Lithium Hydroxy
- Magnesium
- Sodium
- Zinc

M. R. (Hard Hydrocarbon)
Monty Wax®
Rubber Compounding Ingredients
Sunolite® (Anti-Sunchecking Wax)
Vinyl Stabilizers
Witcarbs®
Witco Gelling Agents
Witcotes®

WITCO CHEMICAL COMPANY

260 Madison Avenue, New York 16, N. Y.

Los Angeles • Boston • Chicago • Houston • Cleveland
San Francisco • Akron • London and Manchester, England

CASE HISTORY
Another tough problem solved by an Emery Product
HOW EMERSOL® 9305 PRODUCED ARCHITECTURAL WHITES WITH BEST COLOR RETENTION

Because white enamels that *stay white* have a strong consumer sales appeal, this manufacturer made a thorough search for materials that would not yellow. After a comprehensive evaluation, he found that *Emersol 9305* Double Distilled Liquid Fatty Acid gave the best *color retention* of all materials tested. At the same time the required *4-hour drying time*, gloss retention, and other specifications of hardness, water and alkali resistance, were met fully.

The medium oil length alkyd itself was *lighter in color* than those made from competitive materials. Other plus-features of Emersol 9305 verified by this comprehensive evaluation, were its *low titer*, which facilitated handling and storage, and its high degree of *uniformity* between shipments.

To get whites or pastels with maximum color retention, profit from the experience of others and use Emersol 9305, an Emersol-processed liquid fatty acid, *tailor-made* for high quality alkyd resins.

Emery Fatty Acids & Derivatives Plastolein Plasticizers Twitchell Oils, Emulsifiers

Emery Industries, Inc., Carew Tower, Cincinnati 2, Ohio

See us at Booth #718 24th Exposition of Chemical Industries Commercial Museum, Philadelphia, Nov. 30 to Dec. 5, 1953.

Flaxseed, Linseed Oil Rules For United Kingdom Eased

The United Kingdom Board of Trade has announced that as of March 1, 1954, imports of flaxseed and linseed oil will no longer be related to purchases from official stocks but will be permitted under open individual licenses from any source, The Board of Trade also announced, in Notice No. 591 of October 28, the revised arrangements regarding the ratio of permitted private imports to purchases from Ministry of Food stocks, effective November 15.

The new regulations, superseding Notice to Importers No. 561 of June 9, specify that imports will be permitted in the ratio of one ton of linseed oil (or 3 tons of flaxseed) for every ton of linseed oil purchased from the Ministry of Food. This revised ratio will be applied not only to future purchases up to February 28, 1954 reports the American Embassy, London. from the Ministry but also to purchases since September 7, 1952.

Neville Adds to Warehousing

Neville Chemical Company, Pittsburgh, Pa., has announced that warehousing facilities have been arranged in Philadelphia with George Senn, Inc., Trenton and East Westmoreland avenues. Stocks of Neville resins, resin solutions, and "Nevillac"" anti-skinning agent are now available for distribution from the warehouse to customers in the Philadelphia area.

Organosols, Plastisols Data Offered

Typical uses, properties and methods of applying Bakelite vinyl resin-base organosols, plastisols and plastigels are presented in a new 8-page booklet published by Bakelite Company, a division of Union Carbide & Carbon Corporation, New York. The illustrated booklet, "Bakelite Vinyl Dispersion Resins for Organosols and Plastisols," presents fifteen typical applications, such as dish drainers, overshoes, anatomical models, carpets, dolls and metal chair coatings. Copies may be obtained from the company at 300 Madison avenue, New York 17.

AVAILABLE IN QUANTITY

CELLULOSE TRI-ACETATE (Safety)

Water White Clear
Washed Motion Picture
Film Scrap

PRODUCED in ROLLS or FLAKES

Technical Data, Samples and Prices Furnished on request.

HORN, JEFFERYS & CO.
P.O. Box 110
20 W Burbank Blvd., Burbank Calif.

WOOD FLOUR
WHITE PINE, BIRCH AND MAPLE
ALL MESHES
Inquiries solicited
WILNER WOOD PRODUCTS CO.
NORWAY, MAINE

PLYMOUTH STEARATES
ALUMINUM — ZINC — CALCIUM — MAGNESIUM
Established Qualities Manufactured for thirty years by
M. W. PARSONS-PLYMOUTH, INC.
59 BEEKMAN STREET NEW YORK CITY
DISTRIBUTORS: THOMPSON-HAYWARD CHEMICAL CO., KANSAS CITY, MO., and BRANCHES

STANLEY DOGGETT, Inc.
ESTABLISHED 1878
MANUFACTURERS and IMPORTERS
DRY COLORS OF MERIT QUALITY PIGMENTS
75 VARICK STREET, NEW YORK

AMERICAN
TUNG OIL
Now Ready For Shipment In Tank Cars Or Drums.

CROSBY FOREST PRODUCTS CO.
Picayune, Mississippi
Telephone 760

OHIO APEX DIV. — High Quality Chemicals — fmc

ANHYDROUS ALUMINUM CHLORIDE
OF HIGH QUALITY AND PURITY
SUPPLIED IN A WIDE RANGE OF PARTICLE SIZES
EITHER SUBLIMED OR TECHNICAL GRADES

Other Chemicals:
PHOSPHORUS TRICHLORIDE
PHOSPHOROUS OXYCHLORIDE
DIALLYL PHTHALATE (MONOMER)
ARALKYL CHLORIDES
AROMATIC ALCOHOLS

Your Orders or Inquiries Will Receive Prompt Attention

Telephone NITRO-152 Cable Address OHOPEX-NITRO

OHIO-APEX DIVISION
FOOD MACHINERY AND CHEMICAL CORPORATION
NITRO, WEST VIRGINIA

Argentine Linseed Oil Stocks Estimate Given

Linseed oil stocks in Argentina are estimated at 254,000 short tons, of which about 150,000 tons have been committed for export, according to W. L. Rodman, American Embassy, Buenos Aires.

Mr. Rodman also said that the trade estimates the area planted to flax for harvest beginning late this month at about 2,100,000 acreas, or around 14 percent less than last year. Production is not expected to exceed 20,000,000 bushels, which compares with 22,400,000 bushels in the 1952-53 season. Growers have reduced their flax acreage this year because of unattractive prices as compared with prices for wheat.

Argentine tung production for 1953 is unofficially forecast at a new record of about 110,000 tons from which about 17,000 tons of oil may be extracted. The tung fruit harvest in 1952, which was greatly reduced because of heavy frosts, amounted to approximately 32,700 tons with an oil yield of 4,950 tons.

The gain this year results from an increase in the number of trees now of bearing age and the fact that no damage to the crop was incurred during the growing season. The supply of oil for export for the season from October, 1953-June, 1954, is estimated at 22,300 tons. Exports during January-August of this year amounted to 3,921 tons, with all but 335 tons to the United States.

SPI Unit Meeting Put Off

Postponement of the fifth film, sheeting and coated fabrics division conference, sponsored by the Society of the Plastics Industry, to the Spring of 1954, has been announced by Bernard Mittman, chairman of the SPI vinyl processors administrative committee, and secretary-treasurer of Elm Coated Fabrics Company. This conference, which has been an annual affair, was scheduled originally for December 3 and 4 in New York. As soon as the spring date has been determined an announcement will be made.

Hercules Publishes 'Parlon' Data

Thirty-five case histories of the successful use of protective coatings based on chlorinated rubber are included in a new booklet, "Protection With 'Parlon,'" published by Hercules Powder Company, Wilmington, Del. Included in the twenty-page booklet are performance data on "Parlon" finishes and instructions for applying "Parlon" paints by brush or spray to metal, wood, and various cement and asphalt surfaces.

Urea Resin Adhesives Developed by Monsanto

Monsanto Chemical Company's plastics division has developed two new liquid urea resin adhesives with high solid contents. The products, with the trade names "Lauxite UF-101A" and "Lauxite UF-112," contain sixty percent solids and sixty-five percent solids, respectively.

One advantage of the new adhesives is reported to be their high rate of reactivity, especially in hot press operations. In these application, cycles have been obtained which are faster than those previously achieved with a urea resin, it was reported by Monsanto. The adhesives are said to have excellent mixing and spreading characteristics.

Acheson Reelects President

Howard A. Acheson was recently reelected president and chairman of the board of Acheson Industries, Inc., at its annual stockholders' meeting in New York. Acheson Industries, Acheson Colloids Company, Port Huron, Mich.; Acheson Colloids, Ltd., London, England; Acheson Dispersed Pigments Company, Philadelphia, and Gredag, Inc., Niagara Falls, N. Y.

Also, at the New York meeting, the following appointments were announced: Vice-presidents, Raymond Szmanowitz, P. C. Buck and M. W. Reynolds, and secretary-treasurer, John C. Sprague. Mrs. Leatha Tuer and Lester H. Miller were elected assistant secretary and assistant treasurer, respectively.

Trade Briefs

Roy R. McKenzie has been appointed division engineer of the graphic products group of Minnesota Mining & Manufacturing Company, St. Paul, Minn.

Calco Chemical Division of American Cyanamid Company, Bound Brook, N. J., has been given the "Award of Merit" for public relations communications by the New Jersey Manufacturers Association.

Mallinckrodt STEARATES
STANDARDIZED AND CUSTOM-MADE
ALUMINUM
CALCIUM
MAGNESIUM
SODIUM
ZINC
An outstanding line of Stearates—over 20 grades and types. Top quality in any quantity. Samples on request.
Mallinckrodt
MALLINCKRODT CHEMICAL WORKS
Mallinckrodt St., St. Louis 7, Mo. • 72 Gold St., New York 8, N. Y.
CHICAGO · CINCINNATI · CLEVELAND · LOS ANGELES · MONTREAL · PHILADELPHIA · SAN FRANCISCO
Manufacturers of Medicinal, Photographic, Analytical and Industrial Fine Chemicals

WATER GROUND MICA FOR PAINTS
"SILVERSHEEN SPECIAL" 325 MESH
RICHMOND MICA CORP.
NEWPORT NEWS, VA. 62 WORTH ST., NEW YORK 13, N. Y.

SC Solvents Chemicals Group Member

CHLORINATED SOLVENTS and ALCOHOLS for
Paint and Varnish Removers

NON-FLAMMABLE REMOVERS. Sales of these products have skyrocketed. The basic ingredient, methylene chloride, now readily available. Call for samples and data sheets.

QUICK SERVICE. Your nearby member of the Solvents & Chemicals Group stocks methylene chloride, orthodichlorobenzene, trichlorethylene and a number of other chlorinated solvents to meet your needs.

ALCOHOLS IN QUANTITIES
Whether you need a drum, tank wagon, transport or tank car of methyl, ethyl, butyl or isopropyl alcohol you'll get dependable delivery from your nearby member of the Solvents & Chemicals Group.

THE SOLVENTS & CHEMICALS GROUP
Distributors for America's Leading Producers
CONSULT YOUR TELEPHONE DIRECTORY FOR THE ADDRESS OF YOUR NEAREST GROUP MEMBER:

BUFFALO 7: ..... Buffalo Solvents & Chemicals Corporation
CHICAGO 12: ..... Central Solvents & Chemicals Company
CINCINNATI 29: ..... Amsco Solvents & Chemicals Company
CLEVELAND 11: ..... Ohio Solvents & Chemicals Company
DETROIT 11: ..... Western Solvents & Chemicals Company
FORT WAYNE 8: ..... Hoosier Solvents & Chemicals Corporation
GRAND RAPIDS 9: ..... Wolverine Solvents & Chemicals Company
HOUSTON 15: ..... Texas Solvents & Chemicals Company
INDIANAPOLIS 22: ..... Hoosier Solvents & Chemicals Corporation
LOUISVILLE 1 ..... Amsco Solvents & Chemicals Co.
MILWAUKEE 14: ..... Wisconsin Solvents & Chemicals Corporation
NEW ORLEANS 18: ..... Southern Solvents & Chemicals Corporation
ST. LOUIS 7: ..... Missouri Solvents & Chemicals Company
TOLEDO 6: ..... Western Solvents & Chemicals Company
WINDSOR, ONT. ..... Western Solvents & Chemicals Co.

Your "Q" to Quality SHELLAC

4-Most for Quality
1. Bone dry bleached white shellac.
2. No. 65 extra white refined bone dry bleached shellac.
3. 8 lb extra light pure French varnish.
4. Orange shellacs—all grades.

GUARANTEED TO MEET WITH GOVERNMENT SPECIFICATIONS
Samples Furnished on Request
Agents in Principal Cities:
Allied Basic Chemical Co. Toronto, Canada
Allied Basic Chemical Co. Montreal, Canada
J. A. Castro Havana, Cuba
C. M. Durbin Company Cincinnati, Ohio
J. H. Hinz Company Cleveland, Ohio
W. D. Hodges Company Boston, Mass.
Harry Holland & Son, Inc. 9 So. Clinton St. Chicago, Illinois
R. L. Kelley Danbury, Conn.
James O. Meyers & Sons Buffalo, New York
H. C. Ross Burbank, California
E. M. Walls Co. San Francisco, California
THE MANTROSE CORPORATION
Importers • Bleachers • Manufacturers
136 FORTY-FIRST STREET • BROOKLYN 32, N. Y.

p.e.
HERCULES pentaerythritol
TECHNICAL GRADE
One constant quality, chemically and physically uniform, for better alkyd resins and synthetic oils.
Stocks maintained at Mansfield, Mass., Plant and at Cleveland, Chicago and San Francisco Warehouses.
HERCULES POWDER COMPANY
INCORPORATED
Synthetics Department, 936 Market St., Wilmington 99, Del.
New York Office, 500 Fifth Avenue, Pennsylvania 6-6268
SPS3-1

Mixed Solvents Pigments, Plasticizers
Lacquer Thinners Vinyl Resins
CHEMSOL, INCORPORATED, 74 Dod Court, Elizabeth 3, N. J.
ELizabeth 3-1369-70

YOUR BEST BUY
SYNPRO METALLIC STEARATES and SYNPRON VINYL HEAT STABILIZERS
Large new modern plant; increased Technical Service Staff; Thirty years know-how.
Write for samples and data
SYNTHETIC PRODUCTS CO.
1636 Wayside Road Cleveland 12, Ohio

INDCO PRODUCTS
Pitch Compounds
Tall Oil Esters
Gilsonite Compounds
Synthetic Waxes
VINYL PLASTICIZERS
VINYL COMPOUNDS
We also manufacture and compound products to your specifications.
BCC
BURGESS CHEMICAL COMPANY
SUCCESSORS TO
INDUSTRIAL COMPOUNDING CORP.
Sales Offices: 64 Hamilton Street, Paterson 1, N. J.
MUlberry 4-5889-90
Laboratory and Plant: Ryders Lane, Milltown, N. J.
Milltown 8-1585-86

Monsanto Planning Plastics Research Unit at Springfield

A $1,250,000 technical service and development program that will include a new research center for customers and industry in the plastics field has been announced by Monsanto Chemical Company's plastics division at Springfield, Mass.

Robert K. Mueller, general manager of the plastics division, said the new venture would intensify both the day-to-day and long-range search for new markets and new applications for plastic materials. Construction of this application research and development center, providing 44,000 square feet of additional research floor space, will get under way shortly at Springfield, he said. The center is scheduled for completion late next year.

Esso Appoints Mangelsdorf Manufacturing Dept. Mgr.

Harold G. Mangelsdorf, manager of east coast manufacturing operations has been appointed general manager of the manufacturing department, it has been announced by Stanley C. Hope, president of Esso Standard Oil Company, New York. He succeeds William Naden, director and vice-president, who has been designated primary contact director for the manufacturing department.

Mr. Mangelsdorf joined the company in 1934 at the Baton Rouge, La., refinery where he subsequently became manager of the chemical products division and later general superintendent of the petroleum products division. In 1950 he was appointed general superintendent of the Bayway refinery.

Loven Elects Millerburg

Loven Chemical Company of California, Inc., Newhall, Cal., has elected Harry Millerburg president, following the death of Dr. Karl A. Loven. Mr. Millerburg was previously executive vice-president of the company.

'Cellosolve' Acetate Bulletin Offered

A new technical bulletin on "Cellosolve" acetate has been issued by Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York. This bulletin gives the physical, chemical, and physiological properties of "Cellosolve" acetate as well as its specifications and shipping information, resin solubilities and data on its performance in nitrocellulose lacquers. Copies of the bulletin (F-8296) are available on request from Carbide & Carbon at 30 East 42nd street, New York 17.

Glidden Names Forbes Central Region Director

Appointment of George S. Forbes to the position of regional director of the central region of Glidden Company, Cleveland, Ohio, has been announced by A. D. Duncan, vice-president and general manager of the paint and varnish division.

In his new capacity, Mr. Forbes will be responsible for research, manufacturing and industrial and trade sales in Ohio, western Pennsylvania, New York, Michigan, Indiana and West Virginia. His headquarters will be in Cleveland. Prior to his promotion, Mr. Forbes served as the company's central region industrial sales manager, a position he had held since 1949. Mr. Forbes began his career with Glidden in 1939 as a technical correspondent in the company's Cleveland headquarters.

Stresen-Reuter Appoints

Fred'k A. Stresen-Reuter, Inc., Chicago, has appointed Rice & Co., Cleveland, Ohio, as a representative in western Pennsylvania and most of Ohio. Until now, Rice has represented the company only on Stresen-Reuter's "Essar" line of driers, As of December 1, Rice will represent Stresen-Reuter's line of alkyd resins formulated for paints and printing ink. Rice may be reached through Post Office box 3202, Cleveland, or by telephone at IVanhoe 1-9333.

Ferro Appoints Agent

Ferro Chemical Corporation, Bedford, Ohio, has named C. Withington Company, 29-28 41st avenue, Long Island City, N. Y., sales agent for metropolitan New York, western Connecticut and northern New Jersey. Withington will handle Ferro's line of metallic soaps, driers and vinyl stabilizers, and will maintain stocks in Long Island City and Newark, N. J. Withington's telephone number is RAvenswood 9-1093-4.

Want to Know the New Paints?
Do You Need a Quick Refresher on New Paint Materials?
Bring Yourself Up-To-Date on Twenty Years Of Progress In Paint Products. Just Published!
WHAT YOU SHOULD KNOW ABOUT PAINT
By E. M. FISHER, Technical Editor
National Painters Magazine
Get all of the Fisher series in one volume; compact 4¾" x 6½" handbook size; completely indexed for quick reference. This practical, informative, easily readable book is sufficiently elementary for the non-technical man, yet adequately authoritative for the technician. It has already received ample recognition from paint manufacturers, paint salesmen, paint dealers, painting and decorating contractors who have been following the series in monthly issues of NPM—and buying thousands of reprints.
CHAPTER OUTLINE
1. Outside House Paints
2. Color, Hiding, and Pigment Properties
3. White and Extender Pigments
4. Colored Pigments
5. Varnishes
6. Other Synthetic Resins
7. Latex and Water Thinned Paints
8. Interior Surface Treatments and Primers
9. Enamels, Metal Protection, Lacquers
10. Miscellaneous Finishes, Mildew Prevention
11. The Moisture Problem
Place Your Order Now! Price $2.50
SCHNELL PUBLISHING COMPANY, INC.
30 Church Street, New York 7, N. Y.

Oils, Fats and Waxes

Feature of the market last week was the sharp price advance of soybean meal and other oilmeals. Cash soybean meal was lifted $4 per ton, cottonseed meal, $1 and linseed meal, $1 to $3 per ton as to grade.

Trading in oils and fats was spotty, though total sales aggregated a fair volume. Soybean oil developed an easier tone late in the week, closing slightly lower. Peanut oil was inactive, but offerings were higher, with intimations that firm bids could have shaded asking prices. Crude cottonseed oil was easier. Trading was fairly active at the decline.

Coconut oil was easier and off fractionally, reflecting the softness of copra.

Linseed oil was lowered by crushers following the advance of linseed meal. Demand for this oil lacked snap, as consumers continued to absorb limited quantities for fill-in requirements. Interest in forward delivery continued slow. Trading was active in tung oil at lower prices, with consumers taking sizable quantities for prompt and forward delivery. This created a firmer tone in the market later, especially in futures. Oiticica oil was inactive, with quotations unchanged and nominal. Safflower oil was firmer and up fractionally. Dehydrated castor oil was held at the recent decline, but demand was still limited to actual needs. Brazilian castor oil continued weak and dropped fractionally.

Tallow and greases were unsettled and slightly lower, reflecting reduced demand from exporters. Domestic trading was limited to small lots. Soapers showed little interest in replacements.

Consuming demand for vegetable waxes continued slow. Carnauba grades were quiet, with prices unchanged and fairly steady. African crude beeswax was firmer on spot, due to higher cost of replacements. Japan wax also was in tighter supply here and abroad and spot stocks were advanced one cent per pound.

Vegetable Oils

Castor Dehydrated—Consumers limited demand to actual needs. Market was steady at the recent decline of 1½c. per pound for dehydrated.

Coconut—Crude was easier and off fractionally. Tankcars were dropped to 16¼c. per pound, f.o.b. Pacific coast, November shipment. Sales for December were reported at 16c., same basis. Stocks on spot New York were lower and nominal at 17¾c. per pound, tankcars.

Copra—Prompt shipments were irregular and early advance was not sustained. Prompt was lower at $215 per ton, c.i.f. Pacific coast.

Corn—This market was easy and steady. Crude was sold at 14¼c. per pound, tankcars, f.o.b. mills, November-December delivery. Refined oil was quoted at 17½c. per pound, tankcars, New York.

Cottonseed—There was no special feature to the bleachable cottonseed oil futures market last week. Trading was light, chiefly of a local character. Outside interests continued out of the market. Price fluctuations were narrow, and drifted with allied markets. The trade expected CCC to raise the crude cottonseed oil price 1c. per pound in the near future. Official news was lacking. Cash demand for refined oil was slow and light sales were reported at 17⅝c. per pound, tankcars, New York delivery. Trading in crude cottonseed oil was quite active in the southeast. Tankcars were quoted nominally at 13¾c. per pound, f.o.b. mills, southeast; 13⅝c. Valley and 13¼c., Texas.

Cottonseed oil tendered to the Commodity Credit Corp. for the week ended November 6 amounted to 10,700,000 pounds, increasing the total from the 1953 crop to 146,800,000 pounds. Cottonseed meal tenders during the same week amounted to 15,000 tons, bringing the total thus far this season to 203,056 tons. Linter tenders amounted to 6,000,000 pounds, advancing this season's total to 82,300,000 pounds. Sales of crude totaled 13,480,000 pounds from the 1952 crop and 1,200,000 pounds from the 1953 crop.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended November 20 follow:—

	Sales	Cents per pound High	Low	Close
December	35	16.20	15.90	15.93@16.02
March	38	15.95	15.71	15.71S
May	37	15.70	15.43	15.45S
July	12	15.35	15.16	15.12@15.18
September	1	14.70	14.70	14.45@14.60
October	1	14.60	14.60	14.25@14.50

Total sales, 124 contracts.

Memphis.—Crude cottonseed oil was quoted at 13½c. per pound, tankcars, f.o.b. mills, Valley basis, and crude soybean oil at 13⅜c., Decatur. Market steady. Cottonseed meal was higher at $58.50 to $59 per ton, sacked, Memphis and about $60 per ton, Alabama, Georgia, Carolinas. Demand quiet. Hulls offered at $18 per ton, bulk, Valley basis.

Linseed—Activity in this market was centered in withdrawals of oil against former contracts. New business was confined to fill-in needs, while interest in future requirements was still slow. Prices of raw oil were reduced 3/10c. per pound, as a result of the higher cost of linseed meal, which enabled crushers to lower the price of oil. Carlots were quoted at 15.90c. to 16.10c. per pound, tankcars, f.o.b. Minneapolis, November-December delivery and 17.15c., tankcars, New York basis.

Canada's flaxseed crop as of November 1 was officially estimated at 10,412,000 bushels, compared the second forecast of 10,787,000 bushels and 1952 production of 12,961,000 bushels.

Minneapolis.—Leading crushers reduced raw linseed oil prices 3/10ths of a cent a pound, placing the asking price at 15.9c. a pound, tankcars, f.o.b., Minneapolis. The trade welcomed the decline and a better interest was reported on January-April positions. Warehouse basing price was 16.1c. a pound for November-December shipment and 16.2c. for January-March. Actual bookings continued limited as trade awaited to see what the market will do next. Shipping specifications continued good for this time of the year.

Shipments of linseed oil, in pounds, were as follows:—

	1953-54	1952-53
Past week	5,940,000	7,440,000
Since Sept. 1	66,420,000	89,880,000

Flaxseed—Seed offerings were light. Market held steady. Trading was quiet.

Minneapolis—Trade in cash flaxseed was rather dull and narrow last week as both demand and offers were light. No. 1 seed moved largely at $3.93 to $3.94 a bushel, delivered Minneapolis price. Crushers purchased about 20 cars in the spot cash market and 15 cars and 250,000 bushels in trucklots on a "to-arrive" basis. Marketings of flaxseed for all accounts amounted to 230 cars as against 229 cars the preceding week and 122 cars in the same week last year. Shipments out of Minneapolis totaled 78 cars, compared to 57 cars the previous week and 31 cars a year ago.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1953-54	Receipts 1952-53	Shipments 1953-54	Shipments 1952-53
Past week	402,500	207,400	137,000	57,800
Since Sept. 1	10,367,350	9,073,400	1,910,150	1,306,750

Oiticica—Business continued inactive. Liquid was unchanged and nominal at 18c. to 18¼c. per pound, tankcars, New York, prompt delivery. Drums were held at 19½c. to 20c. per pound, depending upon quantity.

Olive—Small lot trading was reported in edible oil. Offerings were freer on spot and undertone of market was slightly easier. Prices ranged from $2.50 to $2.60 per gallon, drums, spot, duty paid, depending upon quality and quantity.

Palm—Market was inactive, but steady. Clarified was held at 12½c. to 13c. per pound, drums, spot and 11¼c. per pound, tankcars.

Peanut—Offers of crude were light and quotations were higher and nominal at 19½c. per pound, tankcars, f.o.b. mills, depending upon seller. Trading was reported slow. Refined oil was offered at 24¾c. per pound, tankcars, New York delivery.

Rapeseed—Refined oil was quiet, but was well held at 16¼c. per pound, tankcars, New York delivery.

Safflower—Market was firmer and advanced fractionally. Tankcars were quoted

Price Trends

Advanced

Cottonseed meal, $1 per ton.
Linseed meal, $1 to $3 per ton.
Oil, peanut, crude, ½c. per lb.
Safflower, ¼c. per lb.
Peanut meal, old proc., $2 per ton.
Soybean meal, $4 per ton.
Wax, bees, crude Afr., 1c. per lb.
Japan, 1c. per lb.

Reduced

Acid, linseed, 3/10c. per lb.
Copra, $2.50 per ton.
Greases, ½c. per lb.
Lard, 1¼c. per lb.
Oil, castor, No. 1, Braz., ½c. per lb.
Coconut, crude, ½c. per lb.
Corn, crude, ¼c. per lb.
ref., ½c. per lb.
Cottonseed, crude, ¼c. to ¼c. per lb.
ref., ½c. to ¼c. per lb.
Linseed, 3/10c. per lb.
Olive, 5c. per gal.
Soybean, crude, ⅜c. per lb.
ref., ⅝c. per lb.
Tung, ½c. per lb.
Tallow, ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 21, 1952
94.84	92.16	91.53	115.16

(*For Current Prices see page 9*)

For Late Market Developments, See Page 4

CENTURY BRAND
RED OIL—STEARIC ACID
Saponified — Distilled
HYDROGENATED FATTY ACID
(HYDREX)
Cotton Seed Fatty Acids • Corn Oil Fatty Acids
Tallow Fatty Acids • Soya Fatty Acids
Specialty Fatty Acids
GLYCERINE • PITCH • WHITE OLEINE
W. C. HARDESTY CO., INC.
CENTURY STEARIC ACID PRODUCTS INC.
41 EAST 42nd STREET, NEW YORK 17, N. Y.
FACTORY: DOVER, OHIO • IN CANADA W. C. HARDESTY CO. OF CANADA, LTD., TORONTO

SUN BLEACHED
Beehive Brand BEESWAX
• FINEST QUALITY
• GUARANTEED PURE
WILL & BAUMER CANDLE CO., INC.
Dept. E-11 Established 1855 Syracuse, N. Y.
Spermaceti Red Oil Glycerine
Ceresine Stearic Acid
WARRANTED PURE BEES WAX

ALL COMMERCIAL WAXES
Sole Agents
*RIEBECK MONTAN WAXES
KITAGUMI JAPAN WAXES
*ROXITE SUBSTITUTE WAXES
WEST COAST
W. M. Gillies & Co.
6399 Wilshire Blvd.
Los Angeles 48, Calif.
NEW ENGLAND
Philip A. Houghton, Inc.
30 Huntington Ave., Boston 16 Mass.
STROHMEYER & ARPE CO.
139 Franklin Street New York 13, N.Y.
*Reg. Tel. WA 5-2388
CHICAGO
Edward J. Lewis Co.
9 South Clinton St., Chicago 6, Ill
CANADIAN
Drew, Brown Ltd.
5410 Ferrier Street
Montreal 16 Quebec Canada

GROCO 30
DISTILLED
COTTONSEED
FATTY ACIDS
SPECIFICATIONS
Titre ..... 33° — 36°C.
Color Lovibond 5¼" Red ..... 5 — 10
Color Lovibond 5¼" Yellow ..... 30 — 50
Unsaponifiable ..... 2.0% max.
Saponification Value ..... 200 —204
Acid Value ..... 199 —203
Iodine Value (WIJS) ..... 95 —110
Send for samples and free booklet "Fatty Acids in Modern Industry."
A. GROSS & COMPANY
295 MADISON AVENUE, NEW YORK 17, N. Y.
Manufacturers since 1837 Factory: Newark, N. J.
Distributors in principal cities

Fatty Acid Esters

of

MADE TO MEET YOUR SPECIFICATIONS

- STEARATES
- LAURATES
- OLEATES
- RICINOLEATES

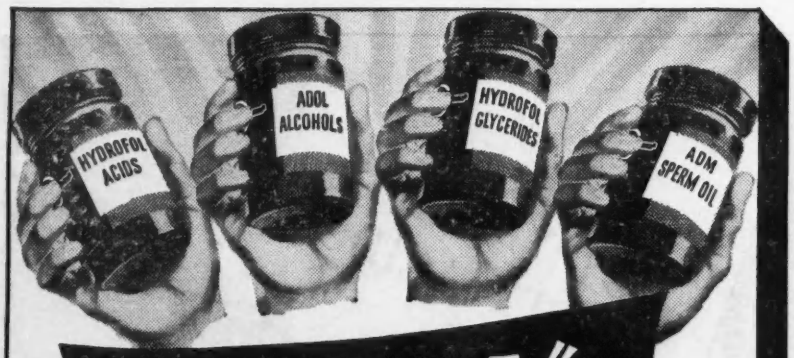
- WETTING AGENTS
- THICKENERS
- PLASTICIZERS
- EMULSIFIERS

THE FLAME AND THE FLASK — SYMBOL OF QUALITY

WRITE FOR SAMPLES, DATA, ETC.

The C. P. Hall Co.
CHEMICAL MANUFACTURERS

5149 W. 67th Street, Chicago 38, Illinois
AKRON, OHIO • CHICAGO, ILL. • NEWARK, N. J. • LOS ANGELES, CAL.



"BIG 4"

In Fat Chemicals

HYDROFOL FATTY ACIDS

ADOL FATTY ALCOHOLS

HYDROFOL GLYCERIDES

ADM SPERM OILS

WRITE FOR WALL CHART OF ADM FAT CHEMICALS, THEIR COMPOSITION AND SPECIFICATIONS

Hydrofol PRODUCTS

PRODUCED IN ANY QUANTITY... SAMPLES TO SHIPLOADS

ARCHER • DANIELS • MIDLAND COMPANY
Chemical Products Division • 2191 West 110th St. • Cleveland 2, Ohio

at 15¾c. per pound, New York basis, following trading at 15½c.

Soybean—An easier tone prevailed late in the week and early advance was not maintained, the market closing slightly lower. Crude oil was quoted at 13⅜c. per pound, tankcars, f.o.b. Decatur, November shipment; 13c., first half December; 12⅞c., straight December; 12⅝c. January-March, and 12⅜c. April-June, same basis. Refined salad was moved at 16½c. per pound, tankcars, New York basis.

Sales and prices of prime soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended November 20 follow:—

	Sales	Cents per pound—High	Low	Close
December	23	13.15	12.80	12.87S
March	48	12.75	12.30	12.35S
May	22	12.55	12.15	12.20S
July	4	12.30	12.05	12.00@12.05
September	4	11.60	11.33	11.25@11.35
October	3	11.30	10.90	10.88@11.05

Total sales, 104 contracts.

Tung—Trading was active for spot and forward delivery at fractionally lower levels. Sales to consumers were reported at 23½c. per pound, tankcars, New York for spot and prompt delivery and at 23c., also at 23¼c. for December forward. Drums were lower at 25½c. to 26½c. per pound, New York basis as to quantity. Domestic oil was entirely nominal at 24½c. per pound, tankcars, f.o.b. mills.

Los Angeles.—Trading was light and spotty over the week, confined to prompt requirements. Following were tankcar prices, f.o.b. Los Angeles, unless otherwise specified:—

Coconut, crude, 16½c. per pound. Corn, crude, 14⅜c. per pound, midwest; refined, 18.40c. per pound. Cottonseed, crude, 14c. per pound asked, California, 13⅜c. per pound Texas, 13½c. per pound Valley; refined, 17½c. per pound, California. Linseed, 17c. per pound. Peanut, crude, 19½c. per pound, f.o.b. mill; refined, 24½c. per pound. Soybean, crude, 13⅜c. per pound; refined, 17⅛c. per pound. Tung, 23½c. per pound, New York.

Fats and Greases

Greases—Market was easier and off ⅛c. Offerings were light. Export inquiry slackened. Domestic business also was less active and confined to immediate needs. Choice white grease, not all hog fat was nominal at 8½c. per pound, tankcars, delivered; yellow, 5⅛c.; house, 4⅞c., and brown, 4⅜c., same basis.

Lard—Market was weaker and dropped 1¼c. per pound for the week. Trading was reported slow. Cash lard was quoted at 14¾c. per pound, tierces, Chicago. Lard stocks in Chicago totaled 5,306,080 pounds, November 15, compared with 5,598,670 pounds, November 1 and 47,569,180 pounds, November 15 last year.

Tallow—Export demand slackened with light sales of fancy bleachable reported at 7¾c. per pound, drums, f.a.s. Dealers also showed less interest in the market. Domestic demand was confined to small lot buyers. Soapers remained on the sidelines. Prices were reduced ⅛c. per pound. Fancy bleachable was quoted at 6½c. per pound, delivered; extra, 6¼c.; special 6c. and No. 1, 5⅜c., same basis.

Fish Oils

Cod—Inquiry for replacements continued slow. Shipments were maintained at 8½c. per pound, drums, New York delivery, with light trading thereat. Offers from Newfoundland were not liberal and well held. Stocks on spot were unchanged at 9½c. to 10c. per pound, drums, as to quantity.

Refined Fish — Demand for refined grades continued spotty. Market was quotably unchanged, but carlots were available at concessions on firm bids. Light pressed oil was offered at 11c. per pound, tankcars, New York delivery. Light sales were reported for export, while domestic demand continued inactive. Crude menhaden oil was unchanged at 6¾c. per pound. tankcars, f.o.b. Atlantic and Gulf coasts.

Los Angeles.—Supplies of domestic oil remained light with demand moderate. Three

CARNAUBA & CANDELILLA
HIGH M.P. SUBSTITUTE

BEES & JAPAN WAX
ORANGE BLEACHED SHELLAC

WM. DIEHL & CO.
332 W. 42nd St., N. Y. 18 BR 9-5211

For Domestic and Export
COTTONSEED MEAL AND CAKE
PEANUT MEAL-SOYABEAN MEAL

Export Codes: ABC 5th, BENTLEY'S JUNIOR PEERLESS

Cable Address: BRODE
Phones: L. D. 271 — Local 38-2544
Teletype No. ME-260

THE BRODE CORPORATION
P. O. Box 700 1012 Falls Building
MEMPHIS, TENNESSEE

GEORGE A. MIEL CO., INC.

Custom Wax Blending

Drumming Bleaching WAXES Barrelling Refining

P. O. Box 263, Foot of Page Ave., Lyndhurst, N. J.
RUtherford 2-7985

The best that can be produced. It is 100% PURE BEESWAX and measures up to all the requirements of the U.S.P.

SPECIFY TL BRAND
BEESWAX

THEODOR LEONHARD WAX CO., INC. (Dept. A)
Haledon Established 1852 Paterson, N. J.

FATTY ACID — VEGETABLE — CAPITAL — ANIMAL — FISH OIL

DISTILLED
FATTY ACIDS

OLEIC ACID
(Red Oil)

STEARIC ACID

ANIMAL FATTY ACID

VEGETABLE
Cottonseed F.A.
Corn F.A.
Soya F.A.
Coconut F.A.

GLYCERINE

Hydrogenated Tallow and Fish Oil Fatty Acids

THE CAPITAL CITY PRODUCTS COMPANY, Columbus 16, Ohio

cars of crude tuna traded at 4¾c. per pound, f.o.b. San Pedro. A stronger market was reported for Canadian herring oil at 8¼c. per pound, U. S. points, 7¼c. per pound, f.o.b. Vancouver. No production of sardine oil is expected with the Southern California season a failure to date.

Fatty Acids

Buying of red oil and stearic acid was restricted to immediate needs. Consumer interest in vegetable fatty acids was spotty, with the overall trade situation unchanged. Prices remained the same except for linseed fatty acid which was reduced 3/10c. per pound, with the decline of the oil.

Cake and Meal

Cottonseed Meal—Most mills are now asking the government cottonseed meal support price of $54.50 per ton, Mississippi Valley points and $56.50 basis southeastern mill points, bulk, plus the cost of bags. Before the government announced it would buy cottonseed meal from mills at the support level and not require mills to tender oil and linters, meal was available at slightly under support levels. Now the mills feel that they can ship the meal to the government if they cannot get the support price from the domestic trade. Demand for meal continued fairly active with most of the purchasing done for nearby requirements.

Linseed Meal—Market was stronger, advancing $1 to $3 per ton. Deliveries against orders more active.

Minneapolis.—Linseed meal continued to rule strong again last week as crushers appeared to be well supplied with shipping directions and were not pressing new sales. The market looked about $1 a ton better than a week ago. Extract meal, 36 percent protein, was quoted at $60 a ton, bulk, in carlots, f.o.b., Minneapolis. Expeller meal, 32 percent to 34 percent protein, was priced around $3 a ton higher than a week ago at $66, bulk, Minneapolis.

Shipments of linseed meal, in pounds, were as follows:—

	1953-54	1952-53
Past week	21,600,000	14,400,000
Since Sept. 1	143,940,000	153,800,000

Peanut Feed Meal—Supplies of peanut feed meal in the southeast continued light. Demand was slow. Old process forty-five percent meal was available at $67 per ton f.o.b. Georgia points and solvent at $62 per ton sacked f.o.b. Alabama for November and first half December shipment. It seems that the government is releasing just about enough peanuts each week to take care of the limited local demand.

Soybean Meal — Higher asking prices for beans, along with fairly good spot demand for meal and oil has caused prices of meal to advance sharply. The demand continued mostly for nearby requirements. Meal forty-four percent was lifted to $63 per ton bulk Decatur for November shipment. Export demand continued active for soybeans and a large tonnage of beans is being exported from southeastern producing points that are close to the ports.

Waxes

Beeswax—Higher cost for replacement strengthened crude and spot stocks of African were raised to 48c. to 49c. per pound. Demand was fair for both crude and refined grades. Prices were unchanged for refined grades despite the firmness of crude.

Carnauba — Consumers continued to buy in small quantities last week. Demand was considered slow. The undertone appeared steady, however, due to scarcity of supplies on spot. North country No. 3 continued to be listed as nominal, at 87c. to 89c., while refined was available at 90c. to 92c., as to quantity. Yellow No. 1 was held at $1.18 to $1.20, with a slightly firmer market picture indicated, due to some instances of scarcity.

Japan — Stocks were scarce domestically, and almost unavailable in Japan last week. Offerings in this country went at 24c. to 25c. per pound on spot, an increase of 1c. over listings two weeks ago. Trade was classified as extremely active.

Ouricury—Light reserves for spot sales kept prices steady despite unenthusiastic inquiry. Prices of 78c. to 80c. per pound for on spot held firm according to quantity. Continued firming was expected, as offerings from Brazil continued light.

Archer-Daniels Names Two

The chemical products division of Archer-Daniels-Midland Company has named C. A. Hemingway Ohio district sales agent for ADM stearic acid and Sidney A. Paradee Chicago district sales representative. In addition to stearic acid, the division makes fatty acids and glycerides, fatty alcohols and sperm oil products.

sugar cane resin

Produced by the Sugar Cane Wax Enterprise, Gramercy, Louisiana. Warwick Wax Co., Inc. exclusive distributors. Available in all quantities for immediate delivery. For samples, quotations and specifications write to:

WARWICK WAX COMPANY, INC.

SUBSIDIARY Sun CHEMICAL CORPORATION

10TH STREET AND 44TH AVE., LONG ISLAND CITY, N. Y.
MIDWESTERN OFFICE:
24 NORTH RACINE AVENUE, CHICAGO 7, ILLINOIS
MONROE 6-9604

Tailor-made WAXES by ALLIED

Hundreds of formulas for different types of wax in our files prove that Allied builds the wax formula to suit the product—

- for any temperature—warm or cold
- for any material—metal, rubber, paper, wood, or plastics
- for any method of application—laminating, brush, roller-coating or spraying in any form—in slabs, drums or solution

Allied starts in where others leave off in the compounding of special waxes. Our highly skilled staff of laboratory technicians—are constantly delving into new applications...new fields of use. Allied will take any wax problem, and give you that worthwhile *extra* in service and results.

STANDARD ALLIED WAXES

MICRO-CRYSTALLINE WAXES: For laminating and dipping purposes, wax-coatings, moisture-proofing, glassines, paraffine-extenders, etc. M.P. 130°F. up to 200°F. In olive-green, amber, natural yellow and white colors. Needle penetrations at 77/100/5 from 3 to 95.

CERESINES • OZOKERITE WAXES

AND OTHER BRANDS

BEESWAXES:
Synthetic and natural—bleached, chemically or naturally, U.S.P.

CARNAUBA EXTENDERS:
For No-Rub Floor Waxes and Carbon Papers.

SUBSTITUTE WAXES: JAPAN, MONTAN

MATCH WAXES

CABLE INSULATION WAXES

WAX AND OIL DIVISION

Allied Asphalt & Mineral Corp.
ESTABLISHED IN 1925
217 BROADWAY, NEW YORK 7 • FACTORY: DUNELLEN, N. J.

AGENTS AND WAREHOUSE STOCKS IN PRINCIPAL CENTERS

ATLANTA — Desks & Sprinkel Co.
BALTIMORE — Warner-Graham Co.
BOSTON — Mulcahy & Griffin
BUFFALO — Wetherbee Chemical Co.
CHICAGO — Philip E. Cale Co.
CINCINNATI — Desks & Sprinkel
CLEVELAND — Norman G. Schabel Co.
DETROIT — D. H. Osgood Co.
HOUSTON — Joe Coulson Co.
KANSAS CITY — Jo'n T. Kennedy Hales Co.
LOS ANGELES — E. B. Taylor Co.
LOUISVILLE — Desks & Sprinkel Co.
MONTREAL, CAN. — Wm. J. Michaud Co., Ltd.
PHILADELPHIA — Loss & Dilworth, Inc.
PORTLAND, ORE. — Miller & Zehrung Chemical Co.
ST. LOUIS — Harry G. Knapp
SAN FRANCISCO — E. M. Wells
SEATTLE — Carl F. Miller & Co.
TORONTO, CAN. — A. S. Paterson

SPECIAL PURCHASE

All Equipment Two Years Old

3—PFAUDLER GLASS LINED REACTION KETTLES; jacketed, 750, 500; 200 gal. Each with motor driven agitator.

6—MONEL KETTLES, 6' dia. x 5'. Jacketed, agitated, cone bottom, each with motor drive. Also 1—5' dia. x 6'9".

1—BAKER PERKINS "TER-MEER" CONTINUOUS CENTRIFUGAL, 12" basket, motor driven.

1—ALL MONEL ENZINGER FILTER; jacketed, 28' x 56", 8 monel leaves.

1—Carrier Corp. Refrigeration Equipment to provide 140,000 BTU hr. refrigeration; Freon 12 compressor.

1—Carrier Corp. Refrigeration Compressor, Size 5F-60, Freon 12.

1—5' dia. x 9' 6" Copper Vacuum Pan, cast iron jacket, also steam coils.

2—7' x 19' Horizontal Steel Welded Storage Tanks.

Including many Condensers, motor driven Pumps, etc.
More complete details in next issue.

WIRE, PHONE, WRITE FOR QUOTATIONS

POLYVINYL ACETATE UNIT

Approx. 1000 lb. per hr. capacity of dry resin produced from a 50/50 water and granulated resin solution. Filtrate: Acetic Acid Solution. The solids leave centrifugal with 10% moisture content. Dryer Discharge: —1%.

1—500 gal. s/s jacketed agitated Reaction Kettle with Reflux Condenser, 15 HP Explosion Proof Motor, Reeves variable speed transmission and Phila. gear reducer.

1—6' dia. x 15' long, s/s Continuous Rotary Resin Dryer.

1—Solid bowl all stainless steel Centrifugal 30" x 40", motor driven.

2—500 gal. s/s Tanks.

1—250 gal. s/s Tank.

3—S/s Pumps, with 1½ HP Explosion Proof Motors.

Above equipment is NEW—was installed but contract cancelled two weeks before completion.

Complete drawings available on request.

OUR 36th YEAR

NEW CONDENSER TUBES

150,000 lbs. of 70/30 Cupro Nickel:
¼" O.D. x .015 Wall (various sizes).
⅝" O.D. x 18 ga. x 8'2", 11'6", 13'3" and 14'3".

70,000 lbs. 90/10 Cupro Nickel:
¾" O.D. x 18 ga. x 15'3¼".

90,000 lbs. Admiralty:
⅝" O.D. x 18 ga. x 22'6" and 27'6".

90,000 lbs. Aluminum Brass:
¾" O.D. x 18 ga. x 28'6".
1" O.D. x 17 ga. x 21' 0-⅜".

12,000 pieces 70/30 Cupro Nickel Finned Tubing:
18 ga. x ⅝" and 1" O.D.
7, 8 and 9 fins per inch, 1 1/16" to 1¾" O.D. over fins.

Also, considerable quantities of intermediate sizes and lengths, as long as inventory lasts.

WIRE, PHONE, WRITE for quotations.

WANTED—Your Idle Machinery

CASH WAITING—Send us your list.

SINGLE ITEMS or COMPLETE PLANTS

FOR OVER A QUARTER CENTURY A SYMBOL OF CONFIDENCE

CONSOLIDATED PRODUCTS CO., INC.

13-18 PARK ROW, NEW YORK 38, N.Y.
BArclay 7-0600 CABLE ADDRESS EQUIPMENT, N.Y.

IT PAYS TO DEAL WITH A LONG ESTABLISHED FIRM

Cast Your Eyes Over These BRILL Buys!

Outstanding Selections Backed by Our Quarter Century of Service and Dependability!

PARTIAL LIST OF VALUES — SEND FOR NEWS FLASH!

1—Niagara 140 sq. ft. stainless steel Filter with Precoat Tank.
1—Sparkler 33D17 Horizontal Filter, 316 stainless steel.
1—Industrial Filter 304 sq. ft. rubber lined with 18 stainless steel leaves.
1—Eimco 4'x5' Rotary Vacuum Filter.
2—Oliver 8'x10' Monel Rotary Vacuum Filters.
1—#12 Sweetland Filter with 36 stainless steel covered leaves.
1—#7 Sweetland Filter with 27 leaves.
1—Shriver 36"x36" cast iron, Filter Press P&F 46 chambers, closed delivery.
1—Sperry 42"x42" wood Filter Press P&F, 54 chambers, hydraulic closure.
1—Pfaudler 1000 gallon, glass-lined Tank.
1—Pfaudler 500 gallon, glass-lined, jacketed, agitated Reactor.
1—2800 gallon 6'x12' Storage Tank 316 stainless with steam coils.
3—2300, 1400 gallon Aluminum Storage Tanks.
4—Buflovak Vacuum Shelf Dryer, 20-42"x 42" shelves with condensers.
1—J. P. Devine Vacuum Shelf Dryer with 17-59"x78" shelves, 2-7/8" spacing.
1—Hersey 4'x26' Monel Hot Air Rotary Dryer.
1—Hersey 3'x26' Stainless Steel Hot Air Rotary Dryer.
1—F. L. Smidth 4'x30' Rotary Kiln, ⅜" shell welded construction.
1—Devine 2'x4' Vacuum Drum Dryer, 316 stainless steel.
2—F. J. Stokes Rotary Vacuum Dryers, 3'x 15' and 30"x8'.
1—Double Drum Atmos. Dryer 36"x84".
1—Link Belt Steel 3'10"x16' Roto-Louvre Dryer.
1—Link Belt, Monel 2'7"x8' Roto-Louvre Dryer.
1—Bird 40" Suspended Centrifugal with rubber covered imperforate basket, bottom discharge, motor driven.
1—Bird 40" Suspended Centrifugal, stainless steel perforated basket, motor driven.
1—Tolhurst 32" Suspended Centrifugal, rubber covered, perforated basket, motor driven.
2—Bird 18"x28", 24"x38" solid bowl continuous Centrifuges.
3—Sharples P16 Monel and stainless steel Pressurite Super Centrifuges.
1—Jeffrey 30"x24" Type A, Hammer Mill with 30 HP motor.
1—Hardinge 5'x36" Silex Lined Conical Ball Mill 20 HP Motor.
1—#2TH Stainless Steel Mikro Pulverizer.
1—Williams "Super Titan" 5 Roll Mill, complete with accessories and motors.
1—Hardinge 4½'x16" Conical Steel Lined Mill.
1—Thropp 18"x50" 2 Roll Mill, motor driven with 75 HP slip-ring motor.
1—Baker Perkins 50 gallon, Type JEM, double arm, jacketed Mixer, 50 HP motor.
2—Baker Perkins 100, 50 gallon, double arm, jacketed Mixers, Sigma Blades.
1—Baker Perkins 35 gallon, Stainless Steel, Double Arm, jacketed Mixer, Sigma Blades.
2—#42 Rotex Sifters, 40"x84" double deck Screens.
3—Stokes BB2 and B2 Rotary Tablet Machines.
100—Feet 12" diameter Screw Conveyor, Stainless steel. New.
3—Heat Exchangers 560 and 370 sq. ft., 304 and 316 stainless steel. New.

Write! Wire! Phone!

BE BRILL EQUIPMENT COMPANY
A SINGLE ITEM OR A COMPLETE PLANT

BRILL EQUIPMENT COMPANY
2401 THIRD AVENUE • NEW YORK 51, N. Y.
Telephone: CYpress 2-5703 • Cable: Bristen, N. Y.

BRILL FILLS THE BILL! Write, wire or phone us for complete information

EQUIPMENT

for CHEMICAL AND ALLIED INDUSTRIES

1—Stainless Steel Storage Tank, 25 ft. dia. x 20 ft., 75,000 gal. capacity.

1—Baker Perkins stainless steel jacketed double arm sigma blade mixer, 20 gals. working capacity, w/20 HP explosion proof motor.
2—Pfaudler & Glascote Glass-lined jacketed vacuum reactors, 75 gallons each with anchor agitator and drive.
2—Pfaudler glass-lined jacketed vacuum reactors, 200 gallons, with anchor agitator and drive.
2—Pfaudler glass-lined jacketed vacuum reactors, 200 gallons each.
4—Pfaudler glass-lined jacketed vacuum reactors, 500 gallons each with anchor agitator and drive.
1—Stainless steel jacketed vacuum reactor, 500 gallons.
1—Stainless steel vacuum direct fired kettle, 500 gallons, with anchor type agitator and drive.
1—Pfaudler glass-lined vacuum distillation unit, 100 gallons, with condenser and receiver.

1—Buflovak Vacuum Double Drum Dryer, 24 in. x 48 in.

1—Acme stainless steel vertical storage tank, 12,000 gallons with coils.
1—Swenson Walker, type 316 stainless steel jacketed crystallizer, 4—10' sections.
1—3,000 gallon type 316 stainless steel tank with coils.
1—Fletcher 20" stainless steel centrifuge with motor.
1—Ellis 30" stainless steel centrifuge with motor.
1—Fletcher 40" stainless steel suspended type centrifuge, perforated basket.
2—Buflovak vacuum shelf dryers, 20 shelves each, double door.
1—Devine vacuum shelf dryer, 9 shelves.
1—Buflovak stainless steel rotary vacuum dryer, 5' x 20'.
1—Baker Perkins stainless steel jacketed mixer, sigma blades, double arm, 9 gallons.
1—Baker Perkins steel jacketed sigma blade mixer, size 17, type NIM, 200 gallons working capacity; built 1949.

R. GELB & SONS, INC.

UNION, N. J. Est. 1886 Unionville 2-4900

STEEL TANKS

Immediate Delivery

2—8' dia. 32' lg. 5/16" shell, 3/8" heads, 11,160 gals.
8—9'6" dia. 30' lg. 5/16" shell, 3/8" heads, 15,500 gals.
8—10'6" dia. 28' lg. 3/8" shell, 3/8" heads, 16,948 gals.

Above tanks are of welded construction—have dished heads—located in Rochester, N. Y.

4—28' dia. 19'6" high, 9/16" plate, 100,000 gals., welded.
2—8' dia. 26 lg. 1/4" plate, 3/8" heads, riveted, 10,000 gals.
1—8' dia. 26' lg. 1/2" plate, riveted, 10,000 gals.
3—Tankcar Tanks, 7' dia. 28'10" lg., 10,000 gals., complete with steam coils.
4—5' dia. 18' lg. 1/4" plate, riveted, 2,500 gals. with steam coils.
4—Heat Exchangers, all steel, new, 12" dia. 10' lg. 86—3/4" tubes, 2 passes.

H. LOEB & SON :-: 4643 LANCASTER AVE. PHILADELPHIA 31, PA.

FOR SALE

Pebble Mills: 5 gal. to 250 gal.
Filter: Oliver 1x1', type 316 stain. steel.
3-roll Mills: Day, high and slow speed.
Vac. Drum Dryer: Devine 2x4', st. steel.
Heat Exchanger: Alberger 1500 sq. ft., s.s.
Mixer: Read dbl. arm, 380 gal., st. steel.
Mixer: Colton #6 stain. steel, 5 hp.
Clarifiers: De Laval 84-51 motor dr.
Mixers: Abbe Lenart s.s., 10 and 100 gal.
Press: Davenport 3-A, Durimet con.
Mills: Day Harris 18" st. steel.
Mixer: Simpson 36" Intensive.
Powder Mixers: 100 to 2,000 lbs.
Filter Presses: 7" to 24", Sperry, Shriver.
Mixer: Day 3-bbl. single arm, st. steel.
Colloid Mill: Premier 3" st. steel, 7½ hp.
Pony Mixers: 2½, 5, 15, 20, 40 gal.
Vacuum Pans: 36", 25 gal. st. steel.
Evaporator: 60 sq. ft., type 316 stain. steel.

LOEB EQUIPMENT SUPPLY CO.
1925 W. North Ave. Chicago 22, Ill.

MAREQ

Keep 'em rolling . . . not rusting

For Sale

Steel storage tanks and complete tank cars, 6,500 to 12,000 gallons capacities, coiled and non-coiled.

Marshall Railway Equipment
Corporation
50 Church St., New York 7, N. Y., CO 7-8090
Cable MARAILQUIP

DISPOSE OF YOUR IDLE EQUIPMENT BEFORE THE END OF 1953

Dispose of your machinery morgue before the end of 1953. FMC will cooperate by giving you a credit to be used in 1954 for replacement equipment or if you prefer CASH on the "barrel-head".

AUTOCLAVES
BALL MILLS
BLENDERS
BUCKET ELEVATORS
CALENDARS
CARTON GLUERS-SEALERS
CENTRIFUGALS
CLARIFIERS
COATING PANS
COLLOID MILLS
COLUMNS
COMPRESSORS
CONVEYORS
COOKERS
COOLERS
CRUSHERS
CRUTCHERS
CRYSTALLIZERS
DRYERS
EVAPORATORS
EXPELLERS
EXTRUDERS
FILLERS
FILTER PRESSES
GRINDERS
HAMMERMILLS
HEAT EXCHANGERS
HOMOGENIZERS
HYDRAULIC PRESSES
KETTLES
KILNS
LABELLERS
MILLS
MIXERS
OVENS
PEBBLE MILLS
PONY MIXERS
PULPERS
PULVERIZERS
PUMPS
PRESSES
PRESSURE VESSELS
REACTORS
RETORTS
ROLLER MILLS
SCREENS
SIFTERS
SLITTERS
SPRAY DRYERS
STERILIZERS
STILLS
TABLET PRESSES
TUBE FILLERS
TUMBLING MIXERS
VACUUM DRYERS
VACUUM FILLERS
VACUUM FILTERS
VACUUM PANS
VISCOLIZERS
VULCANIZERS

FEATURES!

Bird Stainless Continuous Centrifuge, 18" x 28".
Mojonnier Stainless Vacuum Pan, 3' x 10'.
Charlotte No. 50 Monel Jacketed Colloid Mill.

LATEST OFFERINGS FROM THE FMC STOCK

3705 L7—Stainless Lab. Autoclave; 5"x12" agitated.
3662 D28-31—Two Stainless Jacketed Reactors, 18"x18".
3549—Stainless Jacketed Autoclave, 10"x15" 3000 PSI; with anchor agitator.
3824 S 12—Pfaudler Glass Lined Reactor; Jacketed 12"x12" with anchor agitator.
3424 K 11—Type 316 Stainless Closed Head Receiver; 38"x42".
3799 V 1—Lancaster Rotary Digester or Reactor; stainless lined; 1,000 gal. 64"x 19'; Jacketed 300 PSI.
3781—Sprout Waldron Stainless Continuous Cylindrical Mixer; 28" diameter x 12' long with heavy ribbons.
3673 L39-40—Two American Sterilizers, 42" x 60" quick opening doors.
3803—Climax Rectangular Sterilizer or Disinfectant; 48"x42"x8' complete.
3793—Rex Stainless Steel Heat Exchanger 20' long, having 36 tubes 1".
T 6-800—16 A.O. Smith Glass Lined Horizontal Tanks; 7'4"x28' long and 34'9" long.
3659 R 3—Aluminum Bubble Cap Column; 27½"x36'; 11 sections; 60 plates.
3478—Stainless Bubble Cap Column, 8½"x 19' high; 16 sections, complete.
3274—Swenson Quadruple Effect Long Tube Vertical Film Type Evaporator may be separated for single or multiple use; print available.
10595—Louisville Rotary Steam Tube Dryer Type "F" 54"x40' long with 38"x20' Cooler.
8316—Bagley & Sewell Double Drum Dryer; 28"x60".
655 R 6—General American Twin Drum Dryer, 42"x120" complete.
3501/E3—Devine Vacuum Chamber Dryer No. 12; accommodates 20 shelves, 40" x 43".
3853 S3—Baker Perkins Ter-Meer Type Continuous Centrifuge Size S12 in Type 316 Stainless, complete with Slurry Feeder.
3853 S10—Tolhurst Stainless 40" Suspended Type Centrifugal Extractor with 2-speed motor.

SPECIAL LOT T 600
Heavy Chemicals

1 Tolhurst Stainless 40" Suspended Type Centrifugal Extractor; 2 speed motor.
2 Stainless Processing Kettles, 6' dia. x 5'10½" deep plus cone bottom 2'4¾"; with agitators all in Stainless.
3 Steel Horizontal Tanks; 8' x 30" with ½" Steel bumped heads; with coils and saddles.
1 Niagara Stainless Pressure Filter; Model 110-20.
1 Oliver Pre-Coat Vacuum Filter lined with Type 316 Stainless; 5'3" x 10' plus all accessories.
1 Comb. Eng. Vertical Boiler; 323 BHP complete.

1152 M—Bird 12" Rubber and Lead Lined Lab. Centrifuge; motorized.
3497 S 3—Tolhurst Everdur 40" Suspended Type Centrifugal Extractor with 2-speed motor.
1153—Two Bird 48" Suspended Type Rubber covered Centrifuge with 2-speed motor.
3615 G1—Tolhurst Overdriven Suspended Rubber Covered Centrifugal 48"x25" with 2-speed motor.

SPECIAL OFFERINGS

11—Shriver Cast Iron Filter Presses, 32"x32", 48 chambers; washing type; open delivery; many extra parts; crated for export.
14—Patterson and International Pebble Mills; 6'x5'; 6'x8' and 8'x8'.
16—W.&P. Type Jacketed Heavy Duty Double Arm Mixers; 100 gal. and 150 gal. working Caps.
6—Sperry Aluminum Filter Press; 18", 30" and 36" in excellent condition.
17—New and Unused Stainless Steel Tanks with agitators; 1,000 gal. and 2,000 gal. at great reductions below today's market prices.
20—Hammer Mills by Mikro, Gruendler, Fitzpatrick, Williams, Jeffrey, Sturtevant, Robinson, etc.
Send for Complete List Just Out.

FMC FRED R. FIRSTENBERG, Pres.

FIRST MACHINERY CORP.
157 HUDSON ST. WOrth 6-3456 NEW YORK 13, N. Y.

"ECH" OFFERS UNUSUAL BUYS

Gen. Amer. 42"x120" Twin Drum Dryer.
Hersey Rotary Dryer, 3'x6', Monel metal.
Stokes High Vac. Pump, 15 CFM, 1 Hp mtr.
Sweetland #5 Filter, 316 SS leaves.
Mikro Pulverizers, Banton, #2, 3 & 4.
2,200 Gal. SS Horiz. Storage Tank, & 3,500 Gal.
Ross 40 Gal. Mammoth Heavy Duty Pony Mixer.
Devine 20 Shelf Vac. Dryer, 40x42 shelves.

New steel & stainless steel mixers, kettles & tanks fabricated to your specifications. Prompt quotations & deliveries.

Mikro #6 Atomizer, Monel with 20 HP mtr.
Bird 40" Rubber Covered Centrifuge, 5/10 HP.
AM&T 60" Centrifuge, 316 SS, 2/10 HP motor.
Sperry Iron Jktd. Filter Press, 18"x18".
Day SS 5 Gal. Jktd., Sigma Blade Vac. Mixer.
6 AM&T Heavy Duty Mixers or Churns, 300 Gal.
Williams 4 Roll Mill with 60 HP, 3 Ph. motor.
Hardinge 10'x4' Conical Mill, 400 HP motor.
Schutz O'Neil #3 Dustless Sugar Mill.
Sharples SS Centrifuge, Separating Type.
"What Have You For Sale?"
Phone SOuth 8-4451—9264—8782
YOU CAN BANK ON

EQUIPMENT CLEARING HOUSE, INC.
289-10th ST., BKLYN 15, N. Y.

STEIN EQUIP'T
OFFERS

DRYERS AND KILNS

5'x15' Rotary Kiln brick lined complete.
Devine #12 Vac. Shelf Dryer, 40"x42".
2—Allbr. Nell 4'x9 Atmos. Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20".
6—Steam, gas & elect. Dryers.
8—Rotary Dryers, Direct & Indirect. Also Jacketed & Steam Tube.
New Rotary Dryers, Kilns and Coolers

CENTRIFUGALS AND CENTRIFUGES

4—Tolhurst 40" Suspended Type Centrifugals Bottom Discharge.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
11—Sharples No. 5A Stainless Centrifuges, 2 HP. Also Sharples #6.
2—De Laval Multi Clarifiers, 300 & 301.

FILTERS

1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
10—Sperry and Shriver, 12", 18" 24" 30" 36" iron Filter Presses, also disc types.
Sweetland & Oliver Vac. Filters.

KETTLES AND TANKS

100 gal. Stainless closed Jack. Agit. Kettle.
Pfaudler 500-gal. vert. Glass Lined Tanks.
100 gal. Jack Impregnating Kettle.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle
1200 gal. Agit. Steel Tank, 15 HP motor.
600 gal. vert. agit. Jack. Steel Kettle.
8—Jack Kettles, 50 to 2500 gals.
2—Pfaudler 500-gal. Glass Lined Tanks.
1—250 gal. Lead lined Kettle.
5—American Tool 300 gal. Churns.
1—250 gal. Jacketed Copper Kettle.
Stainless, alum., copper, Glass lined, lead lined and steel kettles and tanks.
New Stainless Tanks, 50 to 5,000 gals.
Copper Varnish Kettles, 150 to 300 gals.

PULVERIZERS AND MILLS

Patterson Pebble Mills, 6'x8', 6'x5', 30"x42".
Abbe 24"x33" & 30"x36".
1—Abbe Pebble Mill, 24"x33". Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills
Hammer Mills & Pulverizers, to 50 HP.
1—Sturtevant 42" Rock Emery Mill.
2—Robinson 16" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 8"x22", 9"x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
1—9"x24" 1 Pr. High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills.
2—U. S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

Baker Perkins double arm Mixers, 50 & 9 gals. Also single arm Mixers.
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x5' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
10—Dry Powder Mixers, 50 to 3,000 #.
3—Day 15 & 40-gal. Pony Mixers
1—Ross type 150 gal. change Can Mixer.
15—Portable Elec. Mixers, ¼ to 2 HP.
6—Lead and Paste Mixers, to 150 gals.

MISC. AND SPECIALS

Stokes #280, 4" dia. Preform Machine.
1—Stokes E Tablet Machine, ½" dia.
B&J #1 & Abbe #000 Rotary Cutters.
Anderson RB Expeller 20 HP Motor.
Sly Dust Collector, 242 sq. ft., complete.
3—Buffalo Horiz. Vac. Pumps, 5 H.P.
5—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 4".
5—Kane 2 HP. Gas Boilers, 200 & 160# pressure.
4—French Oil Motor Driven Expellers.
1—Stokes 2E Paste Filler, up to 5 gals.
3—Stokes and Day Powder Fillers.
Filling Machines, liquid paste, powder.
Elgin Capper, ½ H.P. Motor driven.
1—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36" dia.
1—Gould 75 HP 2 stage centrif. Pump.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.
Boilers—Gas, Oil & Coal.
Conveyors & elevators. Scales, etc.

WRITE FOR BULLETIN. WE BUY YOUR SURPLUS MACHINERY AND COMPLETE PLANTS

STEIN EQUIP'T CO.
107 EIGHTH ST., BROOKLYN 15, N. Y.
STERLING 8-1944

JUST PURCHASED

1—Taber CO_2 gas compressor, 1945 unit.

8—4000 gal. Vertical Closed Aluminum Tanks, 5/16".

1—48" dia. x 40 plate high Bubble Cap Column.

15—Aluminum Compartment Tanks, 2700 and 3000 gal. Removed from truck chassis.

2—Kennedy Van Saun 3' dia. x 6' long Ball Tube Mills.

1—64" dia. x 13" plate Bubble Cap Column, high chrome iron.

3—5' dia. x 50' Stainless Steel Columns or Extraction Towers, baffle plate type.

1—Baker Perkins #14—JEM Universal Mixer, 50 gal. working cap., vacuum cover; jacketed; double arm, sigma blades; 50 HP motor.

ANOTHER LIQUIDATION

AT PHILADELPHIA, PA.—Welded steel tanks, Lastiglas lined—(10) 13,700 gal. Horiz.; (4) 9100 gal. Vert.; (2) 6000 gal. Vert.; (4) 4400 gal. Vert. Bolted tanks (brewery glass lining). (9) Vertical—2000, 3600 and 5400 gal. (8) Vertical closed Aluminum Tanks—4100 gal. cap.

FOR SALE FROM STOCK

8—15,000 gal. Vertical Welded Steel Closed Fermenting Tanks, 80 lb. W.P. Turbine agitator with 40 HP motor, 970 lin. ft. 3" pipe coil. Excellent condition.

40—Stainless Steel Tanks—15, 30, 60, 100, 150, 200, 260, 300, 500, 1,000, 3,000, 5,700, 16,000 gal.

30—Aluminum Tanks, closed, 4, 275, 500, 1400, 2300, 3100, 4100 and 9000 gal.

30—Stainless Steel and Stainless Clad Steam Jacketed Kettles—40, 60, 80, 100, 150, 200, 500 gal.

2—450 gal. St. St. Jktd. Agit. closed Processing Kettles.

3—13 gal. Stainless Steel (T347) Jacketed Autoclaves or Pressure Vessels, 700# int. pr., 50# jkt. pr.

1—Stainless Steel Pressure Vessel, 600# WP, T304, 18" dia. x 9'4" L. (86 gal.).

4—Aluminum Reaction Kettles, Jktd. and Agit., 35, 60, 100 & 250 gal.

3—Aluminum Bubble Cap Columns.

8—Stainless Steel Heat Exchangers, 400, 160, 70, 55, 40 and 14 sq. ft.

1—Ball & Jewell #1½ Rotary Cutter, stainless steel. 30 HP Motor.

5—Mikro Pulverizers #1-SH, #1-SI, #2-SI, #2-TH and 24" TH.

2—48" dia. Suspended Centrifugals Stainless Steel Perforated Basket, Bottom Discharge, AT&M & Bird.

4—DeLaval Centrifugal Oil Purifiers, models 600, 74-11 and 94-01.

2—Sweetland Filters, #10, #12.

Attending the Chemical Industries' Show?
Be sure to visit our warehouse and shops.

PERRY EQUIPMENT CORP.
1407 N. SIXTH STREET PHILADELPHIA 22, PA.

BARGAINS IN GOOD USED EQUIPMENT

2—Blaw-Knox 110 Gal. & Ag. Autoclaves 2000 psi. Code Const.
10—Shriver & Sperry Filters, 12" to 39".
2—Sperry 18" Jack. Filter Presses.
1—Sweetland #12 Filter, Bronze Leaves.
1—Read 100 Gal. Mixer, Jack. 40 HP.
8—Horiz. Spiral Mixers 100 to 2000#.
3—Roball Sifters, 20"x48" to 40"x120".
4—Vac Shelf Dryers, 6 to 17 shelves.
1—G. L. Vac. Receiver, 250 Gal.
3—Al. Bubble Cap Columns, 27"x36".
1—Buflovak 6' dia. Vac. Crystallizer
5—Hor. S.S. Tanks, 2,500 to 16,000 Gals.
20—Jack. S.S. Kettles, 30 to 300 Gals.
1—Bird 48" Sus. S.S. Centrifuge M.D.
1—Portable Conveyor 24"x33' centers
4—Vert. Rubber Lined Tanks, 3,500 Gals.
1—Keeler CP 350 H.P. Boiler 160#.
2—Pfaudler 500 Gal. Reactors.
1—Mikro 2TH Pulv. 15 H.P. A.C. motor.

We buy complete plants or individual items.

We invite your inquiries.
Send for Bulletin A-32.

Send us your lists.

The Machinery and Equipment Corp.

533 WEST BROADWAY
New York 12, N. Y. GRamercy 5-6680

NASH HYTOR—AL473 Vacuum Pump, w/3 HP motor.
MIXER—Simpson, #1½ w/10 HP gearmotor; Baker Perkins, 50 gal., Double Sigma, 10 HP drive.
CENTRIFUGAL PUMPS—1", 2", 2½", Rubber, Stainless, C.I., large stock, low prices.
KETTLES—Aluminum, 275 gal., Jacket., Agitated.
DRYERS—Rotary 3'x30', 4'x20', 4½'x20,'
MILLS — Hardinge 7'x48", pebble—6'x22" Ball—24" Lab. unit.
SCREENS—Tyler Hummer, 3x5, 1 & 3 deck.
JAW CRUSHERS — 2 x 6 open door, 8½ x 14½, 9 x 15, 11 x 26, 18 x 36.
FILTER PRESSES—30" wash. open, 42" closed, non-wash.
BLOWERS, PRESSURE—Spencer 470/32, 1300/16, N. Amer. 400/12.
VARI DRIVE—Reeves, 5 HP, gear motors, speed reducers.

LAWLER COMPANY

LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0245

Chemicals Foreign Trade Showed Increase in Sept.

Foreign trade in chemicals increased during September over that of August in keeping with the trend of foreign trade in merchandise generally, it was announced last week by the Bureau of Census.

Exports of chemicals and related products advanced from $62,400,000 in August to $77,600,000 in September, while imports increased from $20,400,000 to $22,300,000. The sharp rise in exports was chiefly the result of increased shipments or medicinal and pharmaceutical preparations and chemical specialties ,the bureau said.

Exports of all merchandise rose from $1,184,600,000 in August to $1,235,000,000 in September, while imports increased from $841,500,000 to $92,000,000. The exports were 6 percent below the average for the first nine months of $1,318,700,000, while the imports were slightly more than the average of $922,900,000.

During the first nine months of 1953, exports were valued at $11,868,200,000, as compared with a total of $11,380,200,000 for the same period in 1952. However, MSP (military) exports amounted to $2,839,900,000 in the first nine months of the year, or $1,503,000,000 greater in value than were similar shipments in 1952. With MSP shipments excluded, exports during the first three-quarters were 10 percent lower than in the comparable 1952 period. Imports during the first nine months of 1953 were valued at $8,306,200,000 as compared with the 1952 total of $7,942,400,000 for the corresponding period.

Bakelite Post to Phinney

H. K. Phinney has been appointed manager of the laminating materials division of Bakelite Company, a division of Union Carbide & Carbon Corporation, New York. Mr. Phinney, who will be responsible for the sale of laminating materials, succeeds Harry Carlson, who has been appointed to the market development department. Mr. Phinney was previously assistant manager of the division. He joined Bakelite in 1945.

Chemical Equipment Festival!

1—Bird 36"x50" S.S. 304 Continuous Centrifuge.

1—Buffalo Double Drum Dryer S.S. 316, 6" Dx7½".
6—S.S. Centrifugal Pumps 10 to 400 GPM
1—Nickel Heat Exchanger, 135 sq. ft., Griscom Russell.
2—300 Gal. S.S. 347 Tanks, ASME.
1—St. Regis 100-lb. Bag Filling Machine.
7—Milton Roy Simplex Feed Pumps. Type 316 stainless steel with 5 HP explosion-proof motor 5'x6'9". NEW.
1—1,000 gal. Agitated Kettle, SS 316, 5'x6'9". NEW.
2—Heat Exchangers, Shell & Tube, SS 316, 1-100 sq. ft.; 1—380 sq. ft. NEW.
2—S.S. 316 Tanks—1—750 Gal.—1—900 Gal.
1—Shriver 12"x12" C.I. Filter Press—24 Chambers.
2—42"x42" Independent Filter Press—30 wood Chambers—NEW.
7—S.S. 316 Tanks—50, 300, 500, 600, 1,000 Gal.—NEW.
2—Pfaudler 1,000 Gal. G/L Kettles—Complete—NEW.

LARGE STOCK OF S.S. CHEMICAL PROCESSING EQUIPMENT OF ALL TYPES
WE BUY SURPLUS EQUIPMENT AND COMPLETE PLANTS

PROCESS PLANTS SERVICE, INC.
333 RAHWAY AVE. ELIZABETH, N. J.
Elizabeth 4-2722

IMMEDIATE SHIPMENT

AGITATOR DRIVES—1, 3, 10 HP.
AUTOCLAVES—2000 gal., 75 gal.
BARATTE XANTHATE—100 gal.
BINS—22'x37', 8'x11'.
BLENDERS—730, 310, 157, 2.7 cu. ft.
CENTRIFUGES—Steel, 26", 30", 40".
CENTRIFUGES—SS 40", 48".
CONVEYORS—Screw & Troughing Belt.
DRYERS—Rotary, Vacuum, 30"x8', 5'x30', 7'x20' (2).
DRYERS—Double Drum, 32"x90", 36"x84", 48"x108", 42"x120".
DRYER—Single Drum, 5'x6'.
DRYERS—Conveyor, 2'x28', 6'x40' 6'6"x43', 8'x94', SS 16'x85'.
ELEVATORS—Bucket, 71', 64', 50', 44', 31', 27', 19' centers.
FEEDOMETERS—Hardinge, Size C & D.
FILTERS — Rotary, Vacuum, 11'6"x18', 11'6"x14', 8'x14', 8'x12', 8'x10', 3'x4'.
FILTER PRESSES—42", 36", 30".
HYDRATORS—Clyde (2).
KETTLES & REACTORS — Stainless Steel, 3000 gal., 525 gal., 300 gal.
KETTLES & REACTORS—Steel, 2800 gal., 1700 gal., 1000 gal.
KILNS—3'x25', 4'x30', 5'x30', 5'x67', 7'x60', 7'x160', 8'x125', 9'x80'.
KOMBINATOR—Flowmaster K-200.
MILLS—5-roll 50" Raymond, 10"x48" Ball, 6'x8' Ball, 36"x42" Pebble, #1 Raymond Imp.
REBOILERS—100 sq. ft., 2200 sq. ft.
TANKS—1200 gal., 4000 gal., 6500 gal., 8500 gal., 12,000 gal., 13,500 gal., 15,000 gal., 135,000 gal.
TANKS—Aluminum, 6000 gal.
TANKS—Stainless Steel, 650 gal., 9800 gal., 10000 gal.
TANK—Lead, 525 gal.
TANKS—Pressure, 1300 gal., 250 PSI, 8200 gal., 390 PSI, 9000 gal., 50 PSI, 15,000 gal., 500 PSI, 23,000 gal., 600 PSI.

- *THIS IS ONLY A PARTIAL LISTING.*
- *WRITE FOR OUR CATALOGUE.*
- *WE WILL BUY YOUR SURPLUS EQP'T.*

HEAT & POWER CO., Inc.
70 Pine St. New York 5, N. Y.
HAnover 2-4890
Machinery and Equipment Merchants

NEW AND GOOD-AS-NEW EQUIPMENT

#316 Stainless Steel Tanks, new 100, 200 & 350 gal.
1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
68—New Pressure Cookers, 18"x18" & 24"x28".
50—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—Jeffrey Vibrating Conveyor 45' lg. 12" wide.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
1—Model 16 Sharples Stainless Steel Centrifuge.
3—New Drum Reilers.
2—Nash Air Compressors, Type AL-623.
1—Manton Gaulin Stainless Homogenizer, 125 gph.
3—French Oil Mill Lard Cookers.
1—Shriver 18" Aluminum Filter 9-plates 9-frames.
1—Rotary Dryer direct fired 54"x30'6".
1—Kennedy-Van Saun Rotary Dryer, 4'x40'—brick lined.
Davenport Rotary Steam Tube Dryer, 6'x36'.
10—New Sharples Oil Purifiers.
1—#316 Stainless Reactor, 265 gals. cap., Jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Burr-Stone Lined.
1—Patterson Ball Mill, porcelain lined, 17"x27".
3—Dopp Kettles with agitators, 600 gal. cap.
1—Ribbon Type Mixer, 30" dia. 10' lg. center discharge.
2—Large Steam Jacketed Horizontal Mixers.
Robinson Pulverizer #20, with 2 motors 10 HP each.
Robinson Ribbon Type Mixer, 30"x10'—like new.
6—Steam Jacketed Blackburn-Smith Filters.
2—Crystallizers—10' long.
2—500 ton Hydraulic Presses.
3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—300 gal. Double Arm Mixer—jacketed.

H. LOEB & SON 4643 LANCASTER AVE. PHILADELPHIA 31, PA.

FOR SALE

2—Motor Driven #2SI Mikro Pulverizers. Practically Brand New.
1—Baker-Perkins 100 Gal. S.S. Mixer, double-arm, sigma blades, motor driven.
1—Day #2 75 Gal. Brighton Mixer.
5—Pebble Mills, 40 to 500 Gal.
10—Pony Mixers, 8, 15, and 40 Gal.
1—Eppenbach Stainless Steel Homo Mixer with a 7½ hp Explosion-Proof Motor
HIGH SPEED Roller Mills, 9"x24" to 16"x40".
3—8" Premier Colloid Mills, watercooled.

Specializing in Rebuilt Machinery

IRVING BARCAN COMPANY
249 Orient Ave., Jersey City 5, N. J.
DElaware 2-6695-6

MILLS—3 roll and 5 roll J. H. Day, Ross, Lehman
PAINT MIXERS—J. H. Day, Baker-Perkins
CENTRIFUGAL Tolhurst 48"
PULVERIZERS — Raymond, Mikro
FILLING MACHINES—Powder, Liquid, Paste
HIGHEST CLASS RECONDITIONING
Telephone: TArda 7-3665
JACKETED KETTLES—Stainless Steel and Plain
COLLOID MILLS
LABELERS — Spot, Can Semi-automatic
TABLET PRESSES — Single and Rotary
WE BUY and/or SELL SINGLE UNITS and COMPLETE PLANTS

WE SELL THE WORLD OVER

NEWMAN TALLOW & SOAP MACHINERY CO. INC.
ESTABLISHED IN 1880
1051-59 WEST 35TH STREET
CHICAGO 9, ILLINOIS

"57,000 Investors in Democracy"

HENRY FORD II
President, Ford Motor Company

"In the most practical way possible—the regular purchase of U.S. Savings Bonds—millions of Americans are demonstrating complete confidence in our form of government. Investors in democracy, they are freely staking their personal security on a fundamental faith in the future of our nation. I am proud that today more than 57,000 Ford Motor Company employees are participating in the Payroll Savings Plan. Last year they bought Savings Bonds worth $25,000,000 at face value, and this year the total of their purchases will be even greater. Through their thrift they are helping to keep America strong."

Few investment groups are as important to America as the members of the Ford Payroll Savings Plan. They are *important* in size—57,000 men and women . . . important in buying power—they actually purchase $25,000,000 in Savings Bonds every year . . . and *very* important to our economic stability—"through their thrift they are helping to keep America strong."

"Oh," someone may say, "it's easy for Ford to get thousands of people to sign up for the Payroll Savings Plan."

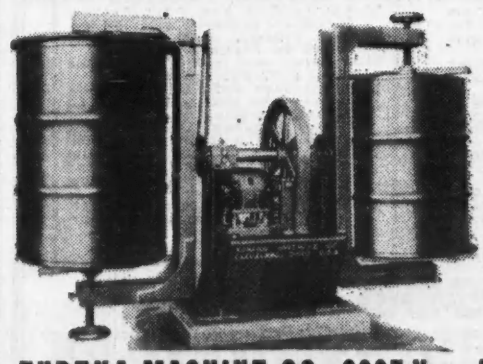
It was relatively easy for Ford, and it is easy for any company to build a good Payroll Savings Plan *if*—(1) The head of the company recognizes the importance of the Payroll Savings Plan; (2) *If* he will show the same personal interest that Mr. Ford takes in Payroll Savings.

The Savings Bond Division, U.S. Treasury Department, Washington, D. C., is ready to provide all the help you need in the way of Application Blanks, literature, and a complete outline of a simple, person-to-person canvass that will put an application blank in the hands of *every* one of your employees. Your employees will do the rest.

The United States Government does not pay for this advertising. The Treasury Department thanks, for their patriotic donation, the Advertising Council and

OIL, PAINT and DRUG REPORTER

SAVE MONEY-CLEAN YOUR DRUMS with the EUREKA DRUM WASHER



This efficient, economical machine cleans every part of the inside surface thoroughly.

It quickly and easily removes paint, varnish, grease, oil and other residues.

Cleans one or two drums at a time, requires but 40 feet of floor space and needs no special foundation or platform. Belt or motor driven.

The standard machine now in use in hundreds of plants.

Send for Booklet

EUREKA MACHINE CO., 2607 Vega Avenue, Cleveland 13, Ohio

Manufacturers of a complete line of conditioning and re-conditioning equipment for drums, barrels and other containers.

MEET MIKE—BOB and RUSTY

WHILE AT THE CHEMICAL SHOW

DELIGHTED TO DISCUSS *YOUR* MACHINERY PROBLEMS AND SAVE YOU DOLLARS

1—Acme Triple effect evaporator, all steel, 462 sq. ft. total area.....$5000
6—Sperry 18" center feed recessed 26 & 41 chambers filter presses, closed del., non-washing .....$350 ea.
1—24" wood filter press, with nearly new wood $350
6—Shriver & Independent 30" filter press skeletons .....$200 ea.
2—Sweetland #12 filters, iron, 36—36" leaves, hydraulic closing .....$2000 ea.
1—Tolhurst 32" rubber lined suspended bottom dump centrifuge $1500
3—Bird 40" steel solid basket bottom discharge centrifuges, 40/10 HP motors....$1500 ea.
1—36" x 22' high copper rectifying column 24 bubble cap plates.....*$2500*
6—3000# approx. 4' x 4'6" x 10' ribbon dry powder mixers .....$1250 ea.
1—Paterson 6' x 4' silex lined pebble mill $750
1—Hardinge 4' x 14'6" tube, arranged for motor drive, no motor.....$1500
2—Raymond #1 pulverizers.....$1000 ea.
2—12" x 30"—3 roll paint roller mills.$600 ea.
2—Pittsburgh Lectrodryers .....$300 ea.
3—Micromax Ph meters, UNUSED....$400 ea.
2—Labour 225 GPM @ 50' head, 15 HP stainless centrifugal pumps.....$450 ea.
1—Duriron 1¾" centrifugal pump...$150
2—Devine 196 CFM high vacuum pumps .....$400 ea.
6—Louisville 8 roll dewatering presses, 3' rolls, copper screens .....$650 ea.
2—Porter Size 40 15 HP 36 RPM output agitator drives .....$650 ea.
5—2' x 8' & 3' x 8' Tyler Niagara stainless one deck screens .....$850 & $1000 ea.
2—Colton 2RP tablet presses.....$350 ea.
1—Stokes 4' x 6' single drum atmospheric dryer $750
5—Beaird Challenger 4' x 27' dryers, oil & gas fired .....$2500 ea.
1—Louisville 6' x 30' steam tubular dryer, 27—4" & 27—3" tubes, 7½ HP.....$2000
1—4' x 10' stainless steel spray dryer.$1000
1—Proctor & Schwartz 2 truck steam heated dryer $1000
1—500 gal. aluminum jacketed & coiled reactor $400
1—Devine 1200 gal. agitated and jacketed cast iron reactor $850
1—Pfaudler 400 gal. glass lined jacketed and agitated anchor type reaction kettle $850
1—500 gallon type 316 stainless steel rectangular tank.....$300
1—12,750 gallon stainless vertical open top coiled tank.....$3850
1—Worthington 210 ton refrigeration unit, with 428 HP turbine.....*$4500*

SUBJECT TO PRIOR SALE-PRESENT OPERATING CONDITION
STILL ON LOCATION—NEVADA, GEORGIA, ILLINOIS, TEXAS, NEW YORK

Convention headquarters Penn Sheraton Philadelphia

CHEMICAL & PROCESS MACHINERY CORP.

"Pledged to Personal Service"

148 Grand Street Worth 4-8130 New York 13, N. Y.

We purchase your surplus

Welcome

To the 24th Chemical Exposition, Philadelphia and KAPLAN METALS CO.

Take advantage of your trip to Philadelphia to visit our warehouses and yards, and acquaint yourself with one of the largest single sources of chemical, process, power, refrigeration, and industrial equipment in the world.

Kettles Tanks Mills Blenders Mixers
Condensers & Exchangers
Filters & Filter Presses Centrifuges & Extractors
Stills Special Machinery

TIOGA & EDGEMONT STREETS
Telephone: NEbraska 4-1210 PHILA. 34, PA.

LATE-TYPE REBUILT AND GUARANTEED MACHINERY

at Bargain Prices

UNION Rebuilt Machinery — Established 1912

Elgin 24-Head Rotary Vacuum Filler.
Resina LC Automatic Capper.
Capem 1SF Automatic Capper.
Kiefer Rotary Air Cleaner.
F.M.C. Kyler A and Burt Wrap-around Labelers.
Mikro 4TH, 3TH, 2TH, 1SH, Bantam Pulverizers; Schutz O'Neill Mills.
Lehman Upright High-Speed 3-Roll Mill.
Fitzpatrick S.S. "D" Comminuter.
W. & P. type 3500 gal. Steam Jacketed, Double Arm Mixer.
Colton 15 gal. Pony Mixer.
Baker Perkins 150 gal. Unidor S. J. Double Arm Mixer.
Baker Perkins BB, W. & P., Readco Heavy Duty 50, 100, 150 gal. Double Arm Mixer.
F. J. Stokes, J. H. Day, New Era, Hottman Mixers, from 1 to 450 gal., with and without Jackets, Single and Double Arm.
Robinson 100, 400, 600, 1500, 10,000 lbs. Dry Powder Mixers.
Day 650 gal. S. J. Jumbo Mixer.
Colton Rotary Tablet Machine.
Tyler Hum-mer #27 2-Deck Electric Sifter.
Copper, Aluminum and S.S. Steam Jacketed Kettles.
Huhn Steam Tubular and Gas-Fired Rotary Tubular Dryers.
S. & S. Model A and B Transwraps.
Stokes and Smith G1 and HG88 Auger Powder Fillers.
Horix S. S. Rotary Filler.
Filler 4-Head and Hope 6-Head S. S. Piston Filler.
Ceco and Jones Auto. Cartoners.
Knapp No. 429 Carton Sealer.
Ermold and World Semi and Fully Automatic Labelers.
Shriver, Alsop, Sweetland, Sparkler Filters.
Hudson Sharp Campbell Automatic Cellophane Wrapper.
Package Machy. FA, CA2 and FAQ Automatic Wrappers.
Hayssen, Oliver, Scandia and Miller Auto. Wrappers.

THIS IS ONLY A PARTIAL LIST — OVER 5000 MACHINES IN STOCK
Tell Us All Your Machinery Requirements

UNION STANDARD EQUIPMENT CO.
318-322 Lafayette Street New York 12, N. Y.

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$5.00. thirty-six words or less: 85c. for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

Send replies to ads with box numbers to
OIL, PAINT AND DRUG REPORTER
30 Church st., New York 7, N. Y.

AGENCIES WANTED

An aggressive industrial and fine chemical organization located in New York can offer 25 years of sales experience and concentrated coverage, desires to act as manufacturers agent. OPD 163.

BUSINESS OPPORTUNITIES

Can You Sell Paint? Are you a good paint salesman? Can you open new Dealer Acc'ts? Can you develop a partly worked territory to its real potential sales? If so, We Want You and will pay you well! $10,000 to $15,000 earnings are possible for the men who can do the job right. Established Chicago Mfr. with complete line of modern, top-quality products at competitive prices backed by sound merchandising program, has openings for several good men in Mid-West. We want men who have proved their ability to make good. Give detailed resume of experience. Our men know about this ad so you can write in confidence. Write OPD 160.

Established manufacturer desires additional products in fields of textile and leather chemicals or specialties. Production and sales-service laboratories available. Describe product and uses. Replies held in strict confidence. OPD 161.

Will invest as active partner or buy outright a chemical manufacturing plant in the metropolitan area and/or chemical processes. OPD 165.

For Chemist-Salesman to set up own department in established specialty chemical company, to make and sell his own or other formulations. Attractive profit sharing arrangement. Write us in full detail. Confidence respected. OPD 163.

Expansion minded, financially responsible chemical company. Also active import/export, offices Midtown Manhattan, interested in purchase of or affiliation with domestic sales/distribution organization and/or manufacturing enterprise allied lines. Submit full details in confidence. OPD 172.

EQUIPMENT OFFERED

300 gal. 304 solid SS Lee model CW-3T heavy duty tilting kettle jacketed for 125# WP equipped with 3HP motor, double motion scraping agitator, hydraulic tilt mechanism on agitator and kettle, slightly used condition practically new. OPD 152.

EQUIPMENT OFFERED

For Sale: 3-3' dia. by 50' long. Direct Heat Rotary Dryers or Rotary Coolers, made by Bonnot Co., Canton Ohio. 5/16" plate, including carrying rolls, supporting bases, reduction gears, etc. Located Chicago. Must be sold quickly. OPD 164.

For Sale—New Tank Mixers and Change Cans in stock and made to order. Also four speed 5 H.P. Post Mixers. Prompt service and competitive prices. Allied Steel and Equipment Company, Chester, N. J.

100 Gallon working capacity W & P heavy duty mixer, size 15, class VI, Type BB. Equipped with double Naben blades, steam jacketed, with vacuum cover. Rated for 30 H.P. motor. Can be seen in operating condition. Immediate sale required to make space available. OPD 162.

Stainless Steel packed column 14'L x 2' diam. with 85 sq.ft. condenser and interconnecting piping, pulverizer, Greundler 2B with 30 HP, TEFC motor—750,000 B.T.U. dowtherm unit—30 HP high pressure package boiler offered at attractive prices. Write Bzura, Inc., Clark St. and Bway, Keyport, N. J.

EQUIPMENT WANTED

Wanted—Send us your list of surplus or idle machinery. Interested in large capacity dry & wet Mixers, Rotary and batch Dryers, Pulverizers, all kinds of Jacketed Kettles, Distilling apparatus Filling and Packaging Units, Stainless steel and non-corrosive Tanks and Vessels For 36 years we have been buying from single items to complete plants Consolidated Products Co., Inc. 13-18 Park Row, New York 38 N Y.

Chemical Equipment wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 140.

Pre-Coat—Oliver Filter about 8 ft. dia. 10 ft. long, preferably stainless construction. State where located, price wanted and specifications. OPD 153.

MATERIALS WANTED

Thiophene in ton lots or substantial parts thereof needed by chemical manufacturer. Write OPD 169.

MATERIALS WANTED

Sell Now! Markets declining. Confidential services offered for disposal of raw material inventories; factory output, over-production; also by-products and residues; equipment. OPD 171.

PLANTS OFFERED

Factory Building corner 2-story 40,000 sq. ft. railroad siding, sprinklers, large elevator, loading bay, high pressure steam available, unrestricted district Brooklyn—6 blocks to Battery Tunnel. Low rent. The R. L. Kraft Company, Woolworth Building, NYC. Cortlandt 7-9377.

POSITIONS OFFERED

Chemist, Development work. Small organic pigments company. Metropolitan area—New Jersey. Give background and salary expected. OPD 166.

Color Matcher for manufacturer of industrial finishes located in metropolitan area. Write giving experience and approximate salary desired. OPD 170.

Polyester Production Man. If you have experience in the fabrication of Polyester resins we can offer a partnership and/or a profit sharing arrangement in a new large scale operation without any investment by you. To qualify, a thorough know how of all phases of production with current experience in the actual fabrication and production of corregated sheets, auto bodies, etc., is required. A technical background is preferred but not essential. We will also consider a technical service man who is engaged in development work in the manufacture and use of polyester resins. Write giving details which will be held in the strictest confidence to the John Brokerage Associates Co., Rooms 303-306 400 38th Street, Union City, New Jersey.

POSITIONS WANTED

Production Chemist—presently employed as superintendent small plant, desires similar position with greater responsibilities. 18 years diversified manufacturing experience including 6 years plant supt., willing to relocate. OPD 155.

Hydrocarbon Chemist, B. A. Age 40, married, family. Fifteen years of varied and extensive experience with petroleum raw materials and products. Mostly research and development. Some engineering training and experience. OPD 167.

Pharmaceutica International Files as Exporter of Drugs

Pharmaceutica International, New York, has filed papers with the Federal Trade Commission under the export trade act for the exportation of drug and chemical specialties and drug sundries, it was announced November 10 by the FTC.

Textile Industry Aid Asked On Flammable Fabrics Act

The Federal Trade Commission has asked the textile industry for suggestions and advice in the drafting of regulations for enforcement of the flammable fabrics act. In a letter to the industry made public last week, the agency asked that the material be supplied by November 30.

The flammable fabrics act, passed earlier this year to curb the interstate shipment and sale of textiles that are dangerous when worn, becomes effective June 30, 1954. However, the commission believes it is important that the regulations be prepared and issued well in advance of that date so that industry can have ample opportunity to bring its practices in full conformity with the law.

During the preparation of the initial draft of the regulations, informal conferences will be held with representatives of the various segments of the textile industry and thereafter a tentative draft of the proposed rule will be released and a public hearing held. The commission hopes to have the proposed draft ready by January 15 and to hold public hearings about February 15. It is aiming at April 1, 1954, as the date for issuance of the final regulations.

Hoover Commission Names Dr. Wilbur to Medical Unit

Dr. Dwight L. Wilbur was appointed to the task force on the medical services last week by former President Herbert Hoover, chairman of the Commission on Organization of the executive branch of the Government.

Dr. Wilbur's appointment completes the membership of the fifteen-man group which is to determine and evaluate the medical services of the federal government from the standpoint of efficient operation, economy, and overlapping or duplicating activities. Dr. Wilbur is presently associated with several hospital staffs in California.

Cottonseed Oil Bids Sought

The Commodity Credit Corporation has announced that it contemplates the purchase of 2,000,000 pounds of hydrogenated cottonseed oil and has invited bids, to be opened November 24. The agency has asked for 1,000,000 pounds of the oil to be packed in new 50-55-gallon open-head steel drums and the remainder to be packed in either 50-pound cans or 1- and 3-pound cans. The purchase is being made pursuant to announcement FO-30/53.

WANTED!
SURPLUS CHEMICALS
SOLVENTS — RESINS — OILS — WAXES — ETC.
MANUFACTURERS PRODUCTS CO.
521 FIFTH AVE., NEW YORK 17, N. Y. MUrray Hill 7-5697

TRANSPORTATION LIQUID COMMODITIES AND CHEMICALS
For the most economical, efficient and dependable transportation, Miller Motor Line of North Carolina, Inc., carries a reputation of being the finest. It has the best and most flexible fleet in the tank truck industry. It has the know-how and equipment to solve your problems for the transportation of any commodity or chemical. If you care to eliminate your transportation problems with the least expense, please let us hear from you by writing to us at the following address:
MILLER MOTOR LINE OF NORTH CAROLINA, INC.
Traffic Department, Post Office Box 457 GREENSBORO, NORTH CAROLINA

WANTED!
CHEMICALS — DYES
PHARMACEUTICALS
SOLVENTS — OILS
INTERMEDIATES
PLASTICIZERS — WAXES
PIGMENTS — COLORS
BY-PRODUCTS
EQUIPMENT — PLANTS
TAKE TAX LOSSES NOW
SELL NOW!
TURN INVENTORIES INTO CASH
Chemical Service Corporation
88 BEAVER ST., NEW YORK 5, N. Y.
Tel.: Hanover 2-6970 Cable address "RETORTS" N. Y.

AVAILABLE
CUSTOM REFINING FACILITIES . . .
• Complete Distillation Service • Distillations
• Extractions • Fractionations
Drum Lots—Tank Cars
WANTED
• All Types of Crude Mixtures
• By-Products, Residues, Wastes
• Contaminated Solvents
Truland CHEMICAL & ENGINEERING CO., Inc.
Box 426, Union, N. J. UNionville 2-7360

SWISS
Chemical Import Firm
will represent
AMERICAN FIRMS
for sales in Switzerland and Europe.
Manager in New York at present.
BOX 159
OIL, PAINT AND DRUG REPORTER
30 Church Street, New York 7, N. Y.

GRINDING and PULVERIZING CHEMICALS
Equipped to handle large tonnage Railroad siding on premises
ALCO MANUFACTURING CO., INC.
IRVINGTON, NEW JERSEY PHONE: ESsex 3-9072

we will buy your...
SURPLUS CHEMICALS
SOLVENTS WAXES OILS
RESINS DRUGS ETC.
WIRE OR PHONE
FOR IMMEDIATE ACTION
All offers held in strictest confidence
Barclay CHEMICAL COMPANY, Inc.
77 VARICK STREET NEW YORK 13, N. Y. · WO 4-5120

Advertisers Index

Albemarle Paper Mfg. Co. 67
Alco Manufacturing Co., Inc. 78
Allied Asphalt & Mineral Corp. 73
American Agricultural Chemical Co. 1
American British Chem. Supplies, Inc. 54
American Can Co. 12, 13
American Cyanamid Co., Industrial Chemicals Div. 10
Ansul Chemical Co. 58
Archer-Daniels-Midland Co. 72
Ashcraft-Wilkinson Co. 25
Atlas Powder Co. 14

Baird, J. M., Company 57
Baker, J. T., Chemical Co. 8
Barcan, Irving, Co. 76
Barclay Chemical Co. 78
Barece Oil Co. 46
Barrett Division 48
Berkshire Chemicals, Inc. 54
Bersworth Chemical Co. 21
Better Finishes & Coatings, Inc. 38
Bios Laboratories, Inc. 58
Bonewitz Laboratories, Inc. 40
Bower, Henry, Chemical Mfg. Co. 38
Bowman, Charles, & Co. 56
Brill Equipment Co. 74
Brode Corp., The 72
Burgess Chemical Co. 70

Capital City Products Co. 72
Carbide & Carbon Chemicals Co., Div. Union Carbide & Carbon Corp. 56
Carey, Philip, Mfg. Co. 54
Celanese Corp. of America, Chemical Div. 80
Chemical & Process Machinery Co. 77
Chemical Service Corp. 78
Chemical Solvents, C. P., Inc. 80
Chemsol, Incorporated 70
Church & Dwight Co., Inc. 36
Cleveland Steel Barrel Co. 41
Columbia Southern Chemical Corp. 30, 36
Commercial Solvents Corp. 23
Connelly Inc. 50
Consolidated Chemical Industries, Inc. 41
Consolidated Products Co., Inc. 74
Consulting Chemists and Engineers 51
Cornwell Chemical Corp. 38
Coupe, Robert A. 40
Crosby Forest Products Co. 68

De Bardeleben Coal Corp. 50
Dewey & Almy Chemical Co. 17
Diamond Alkali Co. 1
Diamond Alkali Co., Organic Chemicals Div. 42
Dicalite Division, Great Lakes Carbon Corp. 65
Diehl, Wm., & Co. 72
Distillation Products Industries, Div. of Eastman Kodak Co. 53
Dodge & Olcott, Inc. 64
Doggett, Stanley, Inc. 68
Dow Chemical Co. 16
Dreyer, P. R., Inc. 64
Duff Chemical Co., Inc. 40
Du Pont de Nemours, E. I., & Co., Inc. 52
Duval Sulphur & Potash Co. 25

Eastman Chemical Products, Inc. 39, 40
Emery Industries, Inc. 68
Equipment Clearing House, Inc. 75
Esso Standard Oil Company 45
Ethyl Corporation 28
Eureka Machine Co. 76
European Chemical Co., Inc. 40

Fairmount Chemical Co., Inc. 55
Felton Chemical Co., Inc. 65
Ferro Chemical Corp. 43
Fezandie & Sperrle 47
Filtrol Corp. 41
Fine Organics, Inc. 80
First Machinery Corp. 75
Florasynth Laboratories, Inc. 63
Foote Mineral Co. 38
Fritzsche Brothers, Inc. 63

Gas Purifying Materials Co. 40
Gayner Glass Works 24
Gelb, R., & Sons, Inc. 74
General Biochemicals, Inc. 57
Geuder Paeschke & Frey Co. 50
Gray, William S., & Co. 1
Greeff, R. W., & Co. 66
Gross, A., & Company 71
Gruman, J. B., Co. 58

Hall, The C. P., Co. 72
Hardesty, W. C. Co. 71
Heat and Power Co., Inc. 76
Hercules Powder Co. 70
Heyden Chemical Corp. 57
Hoffmann-La Roche, Inc. 2
Horn, Jefferys & Co. 68
Hutchinson, D. W., & Co., Inc. 63

Inland Alkaloid Company 61
International Minerals & Chemical Corp. 27

Jefferson Chemical Co. 18

Kaplan Metals Co. 77
Kay-Fries Chemicals, Inc. 54
Kolon Trading Co., Inc. 40, 42, 56
Koppers Company, Inc. 49

Lawler Company 76
Leonard, Theodor, Wax Co., Inc. 72
Lever Brothers Company 54
Loeb, H., & Son 75, 76
Loeb Equipment Supply Co. 75
Lucidol Corp. 57
Lueders, George, & Co. 63

Machinery & Equipment Corp. 76
Magnus, Mabee & Reynard, Inc. 63
Mallinckrodt Chemical Works 69
Mantrose Corporation 69
Manufacturers Products Co. 78
Marine Magnesium Products Corp. 57
Marshall Railway Equipment Corp. 75
Maschmeijer, A., Jr. 65
Matheson Coleman & Bell, Inc. 55
Mathieson Chemical Corporation 37
McKesson & Robbins, Inc. 52
McLaughlin-Gormley-King Co. 43
Meer Corporation 61
Metalsalts Corporation 59

Michigan Chemical Corp. 55
Miel, George A., Co., Inc. 72
Miller Motor Line of North Carolina, Inc. 78
Mondial Trading Corp. 40
Mutual Chemical Co. of America 47

National Chlorophyll & Chemical Co. 54
National Rosin Oil Products, Inc. 65
Neville Chemical Company 44
Newman Tallow & Soap Machinery Co. 76
Niagara Alkali Company 31
Nitrogen Division Allied Chemical & Dye Corp. 42, 53

Ohio-Apex, Inc. 68
Oronite Chemical Co. 26

Pacific Coast Borax Co. 1
Parsons-Plymouth, Inc., M. W. 68
Penick, S. B., & Co. 60
Pennotex Oil Corp. 45
Pennsylvania Industrial Chem. Corp. 66
Pennsylvania Refining Company 45
Pennsylvania Salt Mfg. Co. of Washington 19
Perry Equipment Corp. 75
Pfizer, Chas., & Co., Inc. 35
Philadelphia Quartz Co. 40
Philipp Brothers Chemicals, Inc. 80
Pittsburgh Coke & Chemical Co. 50
Plax Corporation 20
Polak & Schwarz, Inc. 65
Polychemical Co., The 56
Potash Co. of America 43
Prentiss Drug & Chemical Co., Inc. 60
Prior Chemical Corp. 1
Process Plants Service 76
Procter & Gamble 54
Publicker Industries, Inc. 1
Purocaine, Inc. 54

Quaker State Oil Refining Corp. 45

Raney Catalyst Co. 43
Read, Chas. L., & Co., Inc. 40
Reheis Company, Inc. 58
Reilly Tar & Chemical Co. 6
Republic Steel Corp. 49
Richmond Mica Co. 69
Richter, Gedeon, Pharmaceutical Products, Inc. 58
Rosenthal Bercow Co., Inc. 80
Roure-Dupont, Inc. 64

Sharples Chemicals Inc. 80
Sheffield Chemical Co., Inc. 15
Shell Chemical Corp. 11
Shell Oil Co., Inc. 44
Smith Chemical & Color Co., Inc. 79
Snell, Foster D., Inc. 38
Solvay Process Div., Allied Chemical & Dye Corp. 29
Solvents & Chemical Group 69
Sonneborn, L., Sons, Inc. 46
Spencer Chemical Co. 36
Standard Collapsible Tube Co. 47
Stauffer Chemical Co. 37
Stein Equipment Co. 75
Strohmeyer & Arpe Co. 71
Sumner Chemical Co., Inc. 59
Synthetic Fertilizers & Chemicals, Inc. 56
Synthetic Products Co. 70

Tar Residuals Inc. 50
Terra Chemicals, Inc. 56
Titanium Pigment Corp. 22
Tragacanth Importing Corp. 62
Truland Chemical & Engineering Co. 78
Turner, Joseph, & Co. 38

Uni-Gum Corp. 62
Union Carbide & Carbon Corp., Carbide & Carbon Chemicals Co. Div. 56
Union Standard Equipment Co. 77
United States Potash Co., Inc. 42

van Ameringen-Haebler, Inc. 65
Verona Chemical Co. 64

Warwick Wax Company, Inc. 33, 73
Westvaco Chemical Div. 56
Will & Baumer Candle Co., Inc. 71
Wilner Wood Products Co. 68
Witco Chemical Company 67
Wood, Alan, Steel Co. 50
Wyandotte Chemicals Corp. 40

Zinsser & Co., Inc. 47

NFA Hears of Dollar Gains

—Continued from page 5

in quality of farm products to meet consumer demand, and expanding our educational program in the field of marketing and utilization.

"From the days of Dr. Seaman A. Knapp down to the present the extension concept of helping people to help themselves has proven its worth. Extension has a continuing faith in people, and this is shown by the confidence the people have in the extension service. America's greatest resource is its people," Mr. Ferguson stated.

'Permanent Agriculture' Sought

Raymond Rosson, County Agent for Washington County, Tennessee, declared, "The farmer wants and deserves a permanent agriculture, an agriculture that is stable and secure for the farm and the farm family. The people in towns and cities should want the same for the farmer as his well-being reflects directly to the business man's cash register.

Mr. Rosson pointed out that, "Our farmers look to the future and consider the land and its management, now as never before, in terms of grass. For around grass, farmers can organize general crop production so as to promote efficient practices that lead to permanency in agriculture."

ONE STOP SERVICE
FOR ALL COLORS, MINERAL FILLERS AND PIGMENTS

Costwise, you save by eliminating multiple orders, delayed shipments, and excessive inventory when you deal with "Smithko." Over three decades of effective service to many industries stands behind our guarantee of satisfaction.

DEPENDABLE "SMITHKO" PRODUCTS

Barytes
Bentonite
Blanc Fixe
Blues
Bone Black
Browns
Calcium Carbonates
Carbon Black
Chrome Oxides
Clays
Gilsonite
Iron Oxides
Lamp Black
Lime
Magnesite
Magnesium Carbonate
Magnesium Chloride
Manganese Oxide
Mica
Pumice Stone
Reds
Siennas
Silica
Stearates
Talcs
Tall Oil
Umbers
Whitings
Yellow Ochres
Zinc Yellow

Detailed Technical Data Available on Request

SMITH CHEMICAL & COLOR CO.
Incorporated 1919
55 John Street Brooklyn 1, New York
Fabricators of Mineral Colors—Agents for Nationally-Known Manufacturers

ALCOHOLS

Methyl - Ethyl - Isopropyl - Butyl - Isobutyl - Methyl Amyl

CHEMICAL SOLVENTS INCORPORATED

WOrth 2-7763 • MArket 2-3650 60 PARK PLACE, NEWARK 2, N. J.

DRUGS • CHEMICALS
• OILS • WAXES

STOCKS IN NEW YORK
TRIPLE REFINED — SNOWWHITE

SPERMACETI WAX USP

SOLE U.S. SELLING AGENTS for
HUGH HIGHGATE & CO., LTD.
PAISLEY, SCOTLAND

ROSENTHAL BERCOW CO., INC

25 EAST 26th STREET **ROBECO** NEW YORK 10, N. Y.

Cable Address "RODRUG" MUrray Hill 3-7500

SHARPLES ACCELERATOR 57
(Zinc Dimethyldithiocarbamate)
SHARPLES ACCELERATOR 67
(Zinc Diethyldithiocarbamate)
SHARPLES ACCELERATOR 77
(Zinc Dibutyldithiocarbamate)
SHARPLES ACCELERATOR 66
(Selenium Diethyldithiocarbamate)

For additional information, write to Dept. O:

SHARPLES CHEMICALS INC.
PHILADELPHIA 9
CHICAGO 4
NEW YORK 1

SHARPLES TRADE MARK CHEMICALS

PENTAERYTHRITOL

your basic source is

Celanese

producer of Acetaldehyde and Formaldehyde

Celanese* CHEMICALS

*Reg. U.S. Pat. Off.

Celanese Corporation of America • Chemical Division • 180 Madison Ave. • New York 16

recognized by outstanding Pharmaceutical Houses as a

LEADING SOURCE FOR DIFFICULT PHARMACEUTICAL SYNTHESIS

Our complete research staff is ready to cooperate with you on all your production problems . . . Let us show you why so many progressive manufacturers rely on FINE ORGANICS to meet their most exacting requirements.

a partial list of Fine Organics products

PHENYLEPHRINE HYDROCHLORIDE U.S.P.
a vaso-constrictor
MERCUROPHYLLINE U.S.P.
a diuretic
BENZALKONIUM CHLORIDE, U.S.P.
an antiseptic
BISHYDROXYCOUMARIN, U.S.P.
an anticoagulant
POTASSIUM PHTHALIMIDE
intermediate in organic synthesis
2, 4, DINITROPHENYL HYDRAZINE
a ketone – aldehyde reagent

QUATERNARIES THAT HAVE WON THE APPROVAL OF USERS THROUGHOUT THE COUNTRY

GERM-I-TOL *Higher Alkyl Dimethyl Benzyl Ammonium Chloride*
DICHLORAN . *Higher Alkyl Dimethyl Dichloro Benzyl Ammonium Chloride*
BROMAT . . . *Cetyl Trimethyl Ammonium Bromide (Cetab)*
BRETOL . . . . *Cetyl Dimethyl Ethyl Ammonium Bromide (Ethyl Cetab)*

Write for Prices and Technical Data Sheets to DEPT. E-1

FINE ORGANICS, inc.

211 EAST 19th STREET • NEW YORK 3, N. Y.

Quality Chemicals in *quantity*–

Phibro

INDUSTRIAL CHEMICALS

As exclusive agents, we offer for prompt shipment—

COBALT SULPHATE CRYSTALS 20-21%
COBALT OXIDE BLACK 70-71%
COBALT OXIDE GRAY 74-75%
COBALT ACETATE 23-24%
COBALT CARBONATE 48-49%
COBALT CHLORIDE 24-25%
COBALT HYDRATE 60-61%
COBALT NITRATE 20-21%
COBALT SULPHATE MONOHYDRATE 37-38%
NICKEL SULPHATE
NICKEL CHLORIDE
NICKEL CARBONATE

Philipp Brothers Chemicals, Inc.

37 WALL ST., • NEW YORK 5, N. Y. • HAnover 2-4676

Cable Address: PHIBROCHEM NEW YORK BOSTON 10, MASS. • PORTLAND, CONN.
PROVIDENCE 3, R. I. • PHILADELPHIA 6, PA. BALTIMORE 1, MD.